

# Full&Default Power Mode for Head

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| Frequency (MHz) |                           |       |       |                     |                           |       |       |                     |
| GSM 1 Tx slot   | 30.11                     | 29.98 | 30.48 | 31.50               | 21.11                     | 20.98 | 21.48 | 22.50               |
| GPRS 1 Tx slot  | 30.07                     | 29.93 | 30.48 | 31.50               | 21.07                     | 20.93 | 21.48 | 22.50               |
| GPRS 2 Tx slots | 29.03                     | 29.37 | 29.58 | 30.50               | 23.03                     | 23.37 | 23.58 | 24.50               |
| GPRS 3 Tx slots | 27.82                     | 27.83 | 27.92 | 28.80               | 23.56                     | 23.67 | 23.66 | 24.54               |
| GPRS 4 Tx slots | 26.23                     | 26.41 | 26.43 | 27.50               | 23.23                     | 23.41 | 23.43 | 24.50               |
| EDGE 1 Tx slot  | 25.13                     | 25.25 | 25.56 | 26.50               | 16.13                     | 16.25 | 16.56 | 17.50               |
| EDGE 2 Tx slots | 24.25                     | 24.33 | 24.55 | 25.50               | 18.25                     | 18.33 | 18.55 | 19.50               |
| EDGE 3 Tx slots | 22.51                     | 22.31 | 22.72 | 23.50               | 18.25                     | 18.05 | 18.46 | 19.24               |
| EDGE 4 Tx slots | 20.51                     | 20.45 | 20.69 | 21.50               | 17.51                     | 17.45 | 17.69 | 18.50               |

**Full&Default Power Mode for Body**

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) |                           | 824.2 | 836.4 | 848.8               | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |                           | 31.90 | 31.88 | 32.27               | 33.50                     | 22.90 | 22.68 | 23.27               |
| GPRS 1 Tx slot  |                           | 31.88 | 31.85 | 32.24               | 33.50                     | 22.88 | 22.65 | 23.24               |
| GPRS 2 Tx slots |                           | 29.03 | 29.37 | 29.58               | 30.50                     | 23.03 | 23.37 | 23.58               |
| GPRS 3 Tx slots |                           | 27.82 | 27.93 | 27.92               | 28.80                     | 23.56 | 23.67 | 23.68               |
| GPRS 4 Tx slots |                           | 26.23 | 26.41 | 26.43               | 27.50                     | 23.23 | 23.41 | 23.43               |
| EDGE 1 Tx slot  |                           | 25.13 | 25.25 | 25.56               | 26.50                     | 16.13 | 16.25 | 16.56               |
| EDGE 2 Tx slots |                           | 24.25 | 24.33 | 24.55               | 25.50                     | 18.25 | 18.33 | 18.55               |
| EDGE 3 Tx slots |                           | 22.51 | 22.31 | 22.72               | 23.50                     | 18.25 | 18.05 | 18.46               |
| EDGE 4 Tx slots |                           | 20.51 | 20.45 | 20.69               | 21.50                     | 17.51 | 17.45 | 17.69               |

| GSM1900_Ant 0   | Burst Average Power (dBm) |        |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|-------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512    | 661   | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) |                           | 1850.2 | 1680  | 1909.8              | 1850.2                    | 1680  | 1909.8 |                     |
| GSM 1 Tx slot   |                           | 28.65  | 28.83 | 28.85               | 30.50                     | 19.65 | 19.83  | 19.85               |
| GPRS 1 Tx slot  |                           | 28.63  | 28.81 | 28.83               | 30.50                     | 19.63 | 19.81  | 19.83               |
| GPRS 2 Tx slots |                           | 26.61  | 26.48 | 26.50               | 27.50                     | 20.61 | 20.48  | 20.50               |
| GPRS 3 Tx slots |                           | 24.83  | 24.88 | 24.81               | 25.80                     | 20.57 | 20.62  | 20.55               |
| GPRS 4 Tx slots |                           | 23.40  | 23.41 | 23.27               | 24.50                     | 20.40 | 20.41  | 20.27               |
| EDGE 1 Tx slot  |                           | 24.81  | 24.46 | 24.81               | 26.00                     | 15.81 | 15.46  | 15.81               |
| EDGE 2 Tx slots |                           | 23.51  | 23.61 | 23.31               | 25.00                     | 17.51 | 17.61  | 17.31               |
| EDGE 3 Tx slots |                           | 21.80  | 21.81 | 21.71               | 23.00                     | 17.54 | 17.55  | 17.45               |
| EDGE 4 Tx slots |                           | 19.81  | 19.77 | 19.71               | 21.50                     | 16.81 | 16.77  | 16.71               |

| Band            | WCDMA_II_Ant 0          |        |       | Tune-up Limit (dBm) | WCDMA_II_Ant 1 |       |        | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|-------|---------------------|----------------|-------|--------|---------------------|
|                 | Rx Channel              | 9262   | 9300  | 9538                | 9262           | 9400  | 9538   |                     |
| Frequency (MHz) |                         | 9652   | 9800  | 9938                | 9652           | 9800  | 9938   |                     |
|                 |                         | 1852.4 | 1880  | 1907.6              | 1852.4         | 1880  | 1907.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.72  | 22.74 | 22.70               | 24.00          | 22.40 | 22.43  | 22.35               |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.74  | 22.75 | 22.72               | 24.00          | 22.44 | 22.45  | 22.40               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.71  | 21.60 | 21.72               | 23.00          | 21.45 | 21.53  | 21.43               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.73  | 21.61 | 21.71               | 23.00          | 21.45 | 21.50  | 21.41               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 21.18  | 21.14 | 21.19               | 22.50          | 20.91 | 21.09  | 20.93               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 21.22  | 21.11 | 20.93               | 22.50          | 20.92 | 21.06  | 20.91               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.70  | 21.49 | 21.64               | 23.00          | 21.31 | 21.41  | 21.40               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.55  | 21.55 | 21.65               | 23.00          | 21.41 | 21.42  | 21.35               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 21.07  | 20.97 | 21.15               | 22.50          | 20.86 | 20.89  | 20.92               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 21.09  | 20.93 | 20.90               | 22.50          | 20.84 | 20.90  | 20.87               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.73  | 21.62 | 21.80               | 23.00          | 21.44 | 21.43  | 21.43               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.70  | 19.67 | 19.88               | 21.00          | 19.54 | 19.48  | 19.53               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.78  | 20.61 | 20.82               | 22.00          | 20.51 | 20.49  | 20.49               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.77  | 19.71 | 19.78               | 21.00          | 19.49 | 19.50  | 19.49               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.80  | 21.60 | 21.80               | 23.00          | 21.50 | 21.40  | 21.50               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.57  | 20.54 | 20.62               | 21.50          | 19.69 | 19.87  | 19.76               |

| Band            | WCDMA_IV_Ant 0          |        |        | Tune-up Limit (dBm) | WCDMA_IV_Ant 1 |        |        | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|--------|---------------------|----------------|--------|--------|---------------------|
|                 | Rx Channel              | 1312   | 1413   | 1513                | 1312           | 1413   | 1513   |                     |
| Frequency (MHz) |                         | 1537   | 1633   | 1738                | 1537           | 1633   | 1738   |                     |
|                 |                         | 1712.4 | 1732.6 | 1752.6              | 1712.4         | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.52  | 22.80  | 22.68               | 24.00          | 22.40  | 22.61  | 22.52               |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.54  | 22.82  | 22.70               | 24.00          | 22.41  | 22.63  | 22.54               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.57  | 21.82  | 21.72               | 23.00          | 21.41  | 21.69  | 21.57               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.56  | 21.81  | 21.66               | 23.00          | 21.41  | 21.70  | 21.58               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 21.09  | 21.30  | 21.21               | 22.50          | 20.92  | 21.17  | 21.12               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 21.03  | 21.38  | 21.15               | 22.50          | 20.94  | 21.16  | 21.07               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.35  | 21.72  | 21.47               | 23.00          | 21.44  | 21.55  | 21.54               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.38  | 21.75  | 21.59               | 23.00          | 21.49  | 21.48  | 21.33               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 20.99  | 21.13  | 21.04               | 22.50          | 20.95  | 20.97  | 20.86               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 20.79  | 21.21  | 20.99               | 22.50          | 20.83  | 20.98  | 20.88               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.80  | 21.83  | 21.69               | 23.00          | 21.65  | 21.68  | 21.57               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.80  | 19.88  | 19.76               | 21.00          | 19.65  | 19.67  | 19.58               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.78  | 20.85  | 20.73               | 22.00          | 20.62  | 20.68  | 20.59               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.75  | 19.81  | 19.74               | 21.00          | 19.60  | 19.66  | 19.61               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.76  | 21.90  | 21.70               | 23.00          | 21.65  | 21.70  | 21.60               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.59  | 20.55  | 20.52               | 21.50          | 19.94  | 20.12  | 20.11               |

| Band            | WCDMA_V_Ant 0           |       |       | Tune-up Limit (dBm) | WCDMA_V_Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|-------|-------|---------------------|---------------|-------|-------|---------------------|
|                 | Rx Channel              | 4132  | 4182  | 4233                | 4132          | 4182  | 4233  |                     |
| Frequency (MHz) |                         | 4357  | 4407  | 4458                | 4357          | 4407  | 4458  |                     |
|                 |                         | 826.4 | 836.4 | 846.6               | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.13 | 22.25 | 22.22               | 24.00         | 22.46 | 22.62 | 22.60               |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.19 | 22.27 | 22.25               | 24.00         | 22.50 | 22.65 | 22.62               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.19 | 21.26 | 21.30               | 23.00         | 21.54 | 21.67 | 21.77               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.14 | 21.27 | 21.33               | 23.00         | 21.54 | 21.68 | 21.74               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 20.65 | 20.74 | 20.65               | 22.50         | 20.99 | 21.11 | 21.26               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 20.65 | 20.74 | 20.77               | 22.50         | 21.00 | 21.16 | 21.25               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.10 | 21.21 | 21.02               | 23.00         | 21.73 | 21.69 | 21.72               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.06 | 21.13 | 21.09               | 23.00         | 21.63 | 21.68 | 21.67               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 20.53 | 20.69 | 20.58               | 22.50         | 21.21 | 21.20 | 21.08               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 20.70 | 20.71 | 20.59               | 22.50         | 21.11 | 21.17 | 21.03               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.12 | 21.22 | 21.28               | 23.00         | 21.70 | 21.68 | 21.75               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.14 | 19.26 | 19.29               | 21.00         | 19.66 | 19.64 | 19.74               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.14 | 20.23 | 20.30               | 22.00         | 20.65 | 20.64 | 20.70               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.14 | 19.23 | 19.28               | 21.00         | 19.56 | 19.66 | 19.74               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.10 | 21.20 | 21.30               | 23.00         | 21.50 | 21.60 | 21.70               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 19.54 | 19.66 | 19.60               | 21.50         | 20.08 | 20.15 | 20.03               |



| Band 2_Ant 0 |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|--------------|------------|------------|--------------|--------------------------|---------------------------|---------------------------|----------------------|-------------|--|--|--|--|
| RF<br>MHz    | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch. Freq | Power<br>Mids<br>Ch. Freq | Power<br>High<br>Ch. Freq | Turn-up<br>rate (dB) | MPR<br>(dB) |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 18700                    | 18800                     | 19100                     |                      |             |  |  |  |  |
| 20           | QPSK       | 1          | 0            | 22.54                    | 22.61                     | 22.53                     | 24                   | 0           |  |  |  |  |
| 20           | QPSK       | 1          | 49           | 22.53                    | 22.60                     | 22.53                     | 24                   | 0           |  |  |  |  |
| 20           | QPSK       | 1          | 99           | 22.52                    | 22.60                     | 22.57                     | 24                   | 0           |  |  |  |  |
| 20           | QPSK       | 50         | 0            | 22.57                    | 22.60                     | 22.58                     | 24                   | 0           |  |  |  |  |
| 20           | QPSK       | 50         | 24           | 22.55                    | 22.59                     | 22.52                     | 24                   | 0           |  |  |  |  |
| 20           | QPSK       | 50         | 50           | 22.54                    | 22.56                     | 22.53                     | 24                   | 0           |  |  |  |  |
| 20           | 16QAM      | 1          | 0            | 22.55                    | 22.56                     | 22.55                     | 24                   | 0           |  |  |  |  |
| 20           | 16QAM      | 1          | 49           | 22.45                    | 22.32                     | 22.31                     | 24                   | 0           |  |  |  |  |
| 20           | 16QAM      | 1          | 99           | 22.54                    | 22.54                     | 22.55                     | 24                   | 0           |  |  |  |  |
| 20           | 16QAM      | 50         | 0            | 21.80                    | 21.55                     | 21.74                     | 23                   | 1           |  |  |  |  |
| 20           | 16QAM      | 50         | 24           | 21.73                    | 21.68                     | 21.80                     | 23                   | 1           |  |  |  |  |
| 20           | 16QAM      | 100        | 0            | 21.71                    | 21.75                     | 21.82                     | 23                   | 1           |  |  |  |  |
| 20           | 64QAM      | 1          | 0            | 21.66                    | 21.68                     | 21.84                     | 24                   | 0           |  |  |  |  |
| 20           | 64QAM      | 1          | 49           | 21.41                    | 21.73                     | 22.04                     | 23                   | 1           |  |  |  |  |
| 20           | 64QAM      | 1          | 99           | 21.41                    | 21.73                     | 22.04                     | 23                   | 1           |  |  |  |  |
| 20           | 64QAM      | 50         | 0            | 20.79                    | 20.66                     | 20.74                     | 22                   | 2           |  |  |  |  |
| 20           | 64QAM      | 50         | 24           | 20.73                    | 20.78                     | 20.80                     | 22                   | 2           |  |  |  |  |
| 20           | 64QAM      | 100        | 0            | 20.65                    | 20.64                     | 20.67                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 1          | 0            | 18.72                    | 18.75                     | 18.85                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 1          | 49           | 18.52                    | 18.58                     | 18.58                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 1          | 99           | 18.59                    | 18.63                     | 18.60                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 50         | 0            | 18.47                    | 18.60                     | 18.51                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 50         | 24           | 18.47                    | 18.58                     | 18.45                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 100        | 0            | 18.48                    | 18.52                     | 18.46                     | 20                   | 4           |  |  |  |  |
| 20           | 256QAM     | 100        | 0            | 18.62                    | 18.64                     | 18.41                     | 20                   | 4           |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 18875                    | 18900                     | 19125                     |                      |             |  |  |  |  |
| 16           | QPSK       | 1          | 0            | 22.47                    | 22.49                     | 22.31                     | 24                   | 0           |  |  |  |  |
| 16           | QPSK       | 1          | 37           | 22.47                    | 22.49                     | 22.37                     | 24                   | 0           |  |  |  |  |
| 16           | QPSK       | 1          | 74           | 22.27                    | 22.47                     | 22.48                     | 24                   | 0           |  |  |  |  |
| 16           | QPSK       | 36         | 0            | 22.38                    | 22.39                     | 22.38                     | 23                   | 1           |  |  |  |  |
| 16           | QPSK       | 36         | 24           | 22.39                    | 22.44                     | 22.42                     | 24                   | 0           |  |  |  |  |
| 16           | QPSK       | 36         | 50           | 22.31                    | 22.45                     | 22.31                     | 23                   | 1           |  |  |  |  |
| 16           | QPSK       | 75         | 0            | 22.37                    | 22.48                     | 22.33                     | 23                   | 1           |  |  |  |  |
| 16           | 16QAM      | 1          | 0            | 22.47                    | 22.37                     | 22.48                     | 23                   | 1           |  |  |  |  |
| 16           | 16QAM      | 1          | 37           | 22.32                    | 22.13                     | 22.54                     | 24                   | 0           |  |  |  |  |
| 16           | 16QAM      | 1          | 74           | 22.48                    | 22.34                     | 22.46                     | 24                   | 0           |  |  |  |  |
| 16           | 16QAM      | 36         | 0            | 21.63                    | 21.48                     | 21.61                     | 23                   | 1           |  |  |  |  |
| 16           | 16QAM      | 36         | 20           | 21.54                    | 21.44                     | 21.71                     | 23                   | 1           |  |  |  |  |
| 16           | 16QAM      | 36         | 39           | 21.62                    | 21.63                     | 21.70                     | 23                   | 1           |  |  |  |  |
| 16           | 16QAM      | 75         | 0            | 21.45                    | 21.54                     | 21.62                     | 23                   | 1           |  |  |  |  |
| 16           | 64QAM      | 1          | 0            | 21.35                    | 21.67                     | 21.70                     | 23                   | 1           |  |  |  |  |
| 16           | 64QAM      | 1          | 37           | 21.70                    | 21.62                     | 21.62                     | 23                   | 1           |  |  |  |  |
| 16           | 64QAM      | 1          | 74           | 21.28                    | 21.56                     | 21.84                     | 23                   | 1           |  |  |  |  |
| 16           | 64QAM      | 36         | 0            | 20.67                    | 20.43                     | 20.49                     | 22                   | 2           |  |  |  |  |
| 16           | 64QAM      | 36         | 20           | 20.53                    | 20.58                     | 20.41                     | 22                   | 2           |  |  |  |  |
| 16           | 64QAM      | 36         | 39           | 20.62                    | 20.52                     | 20.57                     | 22                   | 2           |  |  |  |  |
| 16           | 64QAM      | 75         | 0            | 20.64                    | 20.55                     | 20.68                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 1          | 0            | 18.64                    | 18.58                     | 18.50                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 1          | 37           | 18.45                    | 18.47                     | 18.33                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 1          | 74           | 18.38                    | 18.45                     | 18.17                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 36         | 0            | 18.34                    | 18.44                     | 18.29                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 36         | 20           | 18.37                    | 18.38                     | 18.20                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 36         | 39           | 18.34                    | 18.28                     | 18.31                     | 20                   | 4           |  |  |  |  |
| 16           | 256QAM     | 75         | 0            | 18.37                    | 18.42                     | 18.28                     | 20                   | 4           |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 18950                    | 19000                     | 19150                     |                      |             |  |  |  |  |
| 19           | QPSK       | 1          | 0            | 22.45                    | 22.48                     | 22.44                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 1          | 25           | 22.27                    | 22.40                     | 22.45                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 1          | 49           | 22.39                    | 22.41                     | 22.38                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 1          | 99           | 22.39                    | 22.41                     | 22.38                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 25         | 0            | 22.50                    | 22.35                     | 22.46                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 25         | 24           | 22.34                    | 22.34                     | 22.34                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 25         | 50           | 22.32                    | 22.34                     | 22.45                     | 24                   | 0           |  |  |  |  |
| 19           | QPSK       | 50         | 0            | 22.36                    | 22.34                     | 22.30                     | 24                   | 0           |  |  |  |  |
| 19           | 16QAM      | 1          | 0            | 22.46                    | 22.40                     | 22.44                     | 24                   | 0           |  |  |  |  |
| 19           | 16QAM      | 1          | 25           | 22.30                    | 22.23                     | 22.54                     | 24                   | 0           |  |  |  |  |
| 19           | 16QAM      | 1          | 49           | 22.42                    | 22.42                     | 22.41                     | 24                   | 0           |  |  |  |  |
| 19           | 16QAM      | 1          | 99           | 21.73                    | 21.43                     | 21.61                     | 23                   | 1           |  |  |  |  |
| 19           | 16QAM      | 25         | 0            | 21.73                    | 21.43                     | 21.61                     | 23                   | 1           |  |  |  |  |
| 19           | 16QAM      | 25         | 12           | 21.51                    | 21.61                     | 21.72                     | 23                   | 1           |  |  |  |  |
| 19           | 16QAM      | 25         | 25           | 21.64                    | 21.53                     | 21.64                     | 23                   | 1           |  |  |  |  |
| 19           | 16QAM      | 50         | 0            | 21.53                    | 21.54                     | 21.62                     | 23                   | 1           |  |  |  |  |
| 19           | 64QAM      | 1          | 0            | 21.36                    | 21.67                     | 21.70                     | 23                   | 1           |  |  |  |  |
| 19           | 64QAM      | 1          | 25           | 21.72                    | 21.68                     | 21.68                     | 23                   | 1           |  |  |  |  |
| 19           | 64QAM      | 1          | 49           | 21.21                    | 21.48                     | 21.81                     | 23                   | 1           |  |  |  |  |
| 19           | 64QAM      | 25         | 0            | 20.59                    | 20.49                     | 20.53                     | 22                   | 2           |  |  |  |  |
| 19           | 64QAM      | 25         | 12           | 20.50                    | 20.58                     | 20.43                     | 22                   | 2           |  |  |  |  |
| 19           | 64QAM      | 25         | 25           | 20.53                    | 20.54                     | 20.48                     | 22                   | 2           |  |  |  |  |
| 19           | 64QAM      | 50         | 0            | 20.67                    | 20.65                     | 20.80                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 1          | 0            | 18.61                    | 18.58                     | 18.41                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 1          | 25           | 18.38                    | 18.48                     | 18.41                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 1          | 49           | 18.46                    | 18.36                     | 18.32                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 25         | 0            | 18.34                    | 18.36                     | 18.45                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 25         | 12           | 18.35                    | 18.49                     | 18.33                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 25         | 25           | 18.29                    | 18.45                     | 18.29                     | 20                   | 4           |  |  |  |  |
| 19           | 256QAM     | 50         | 0            | 18.51                    | 18.50                     | 18.17                     | 20                   | 4           |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 19025                    | 19050                     | 19175                     |                      |             |  |  |  |  |
| 5            | QPSK       | 1          | 0            | 22.40                    | 22.47                     | 22.46                     | 24                   | 0           |  |  |  |  |
| 5            | QPSK       | 1          | 14           | 22.28                    | 22.50                     | 22.32                     | 24                   | 0           |  |  |  |  |
| 5            | QPSK       | 1          | 24           | 22.28                    | 22.50                     | 22.32                     | 24                   | 0           |  |  |  |  |
| 5            | QPSK       | 12         | 7            | 22.47                    | 22.45                     | 22.43                     | 24                   | 0           |  |  |  |  |
| 5            | QPSK       | 12         | 13           | 22.47                    | 22.42                     | 22.34                     | 24                   | 0           |  |  |  |  |
| 5            | QPSK       | 25         | 0            | 22.50                    | 22.52                     | 22.27                     | 24                   | 0           |  |  |  |  |
| 5            | 16QAM      | 1          | 0            | 22.40                    | 22.41                     | 22.41                     | 24                   | 0           |  |  |  |  |
| 5            | 16QAM      | 1          | 12           | 22.27                    | 22.11                     | 22.45                     | 24                   | 0           |  |  |  |  |
| 5            | 16QAM      | 1          | 24           | 22.43                    | 22.36                     | 22.42                     | 24                   | 0           |  |  |  |  |
| 5            | 16QAM      | 12         | 0            | 21.55                    | 21.30                     | 21.65                     | 23                   | 1           |  |  |  |  |
| 5            | 16QAM      | 12         | 7            | 21.67                    | 21.53                     | 21.71                     | 23                   | 1           |  |  |  |  |
| 5            | 16QAM      | 12         | 13           | 21.55                    | 21.47                     | 21.74                     | 23                   | 1           |  |  |  |  |
| 5            | 16QAM      | 25         | 0            | 21.55                    | 21.44                     | 21.75                     | 23                   | 1           |  |  |  |  |
| 5            | 64QAM      | 1          | 0            | 21.39                    | 21.78                     | 21.78                     | 23                   | 1           |  |  |  |  |
| 5            | 64QAM      | 1          | 12           | 21.72                    | 21.68                     | 21.68                     | 23                   | 1           |  |  |  |  |
| 5            | 64QAM      | 1          | 24           | 21.28                    | 21.54                     | 21.84                     | 23                   | 1           |  |  |  |  |
| 5            | 64QAM      | 12         | 0            | 20.63                    | 20.43                     | 20.48                     | 22                   | 2           |  |  |  |  |
| 5            | 64QAM      | 12         | 7            | 20.49                    | 20.58                     | 20.41                     | 22                   | 2           |  |  |  |  |
| 5            | 64QAM      | 12         | 13           | 20.69                    | 20.51                     | 20.71                     | 22                   | 2           |  |  |  |  |
| 5            | 64QAM      | 25         | 0            | 20.61                    | 20.61                     | 20.86                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 1          | 0            | 18.53                    | 18.53                     | 18.44                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 1          | 12           | 18.35                    | 18.36                     | 18.41                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 1          | 24           | 18.47                    | 18.33                     | 18.34                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 12         | 0            | 18.38                    | 18.38                     | 18.41                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 12         | 7            | 18.39                    | 18.31                     | 18.33                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 12         | 13           | 18.32                    | 18.32                     | 18.32                     | 20                   | 4           |  |  |  |  |
| 5            | 256QAM     | 25         | 0            | 18.40                    | 18.40                     | 18.24                     | 20                   | 4           |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 19075                    | 19080                     | 19193                     |                      |             |  |  |  |  |
| 3            | QPSK       | 1          | 0            | 22.31                    | 22.38                     | 22.31                     | 24                   | 0           |  |  |  |  |
| 3            | QPSK       | 1          | 8            | 22.54                    | 22.58                     | 22.53                     | 24                   | 0           |  |  |  |  |
| 3            | QPSK       | 1          | 14           | 22.34                    | 22.42                     | 22.49                     | 24                   | 0           |  |  |  |  |
| 3            | QPSK       | 3          | 0            | 22.43                    | 22.45                     | 22.50                     | 24                   | 0           |  |  |  |  |
| 3            | QPSK       | 3          | 4            | 22.30                    | 22.36                     | 22.42                     | 24                   | 0           |  |  |  |  |
| 3            | QPSK       | 8          | 0            | 22.47                    | 22.43                     | 22.41                     | 24                   | 0           |  |  |  |  |
| 3            | 16QAM      | 1          | 0            | 22.45                    | 22.38                     | 22.43                     | 24                   | 0           |  |  |  |  |
| 3            | 16QAM      | 1          | 8            | 22.31                    | 22.18                     | 22.50                     | 24                   | 0           |  |  |  |  |
| 3            | 16QAM      | 1          | 14           | 22.47                    | 22.40                     | 22.48                     | 24                   | 0           |  |  |  |  |
| 3            | 16QAM      | 3          | 0            | 21.71                    | 21.48                     | 21.58                     | 23                   | 1           |  |  |  |  |
| 3            | 16QAM      | 3          | 4            | 21.61                    | 21.49                     | 21.73                     | 23                   | 1           |  |  |  |  |
| 3            | 16QAM      | 8          | 0            | 21.57                    | 21.53                     | 21.71                     | 23                   | 1           |  |  |  |  |
| 3            | 16QAM      | 15         | 0            | 21.41                    | 21.55                     | 21.73                     | 23                   | 1           |  |  |  |  |
| 3            | 64QAM      | 1          | 0            | 21.48                    | 21.66                     | 21.67                     | 23                   | 1           |  |  |  |  |
| 3            | 64QAM      | 1          | 8            | 21.73                    | 21.63                     | 21.87                     | 23                   | 1           |  |  |  |  |
| 3            | 64QAM      | 3          | 0            | 20.65                    | 20.52                     | 20.57                     | 22                   | 2           |  |  |  |  |
| 3            | 64QAM      | 3          | 8            | 20.50                    | 20.60                     | 20.48                     | 22                   | 2           |  |  |  |  |
| 3            | 64QAM      | 15         | 0            | 20.51                    | 20.60                     | 20.61                     | 22                   | 2           |  |  |  |  |
| 3            | 256QAM     | 1          | 0            | 18.53                    | 18.48                     | 18.41                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 1          | 8            | 18.32                    | 18.51                     | 18.49                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 1          | 14           | 18.46                    | 18.36                     | 18.29                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 3          | 0            | 18.35                    | 18.39                     | 18.31                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 8          | 4            | 18.35                    | 18.49                     | 18.18                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 15         | 0            | 18.28                    | 18.46                     | 18.35                     | 20                   | 4           |  |  |  |  |
| 3            | 256QAM     | 15         | 8            | 18.45                    | 18.38                     | 18.25                     | 20                   | 4           |  |  |  |  |
| Channel      |            |            |              |                          |                           |                           |                      |             |  |  |  |  |
|              |            |            |              | 19097                    | 19100                     | 19193                     |                      |             |  |  |  |  |
| 14           | QPSK       | 1          | 0            | 22.31                    | 22.38                     | 22.31                     | 24                   | 0           |  |  |  |  |
| 14           | QPSK       | 1          | 3            | 22.39                    | 22.45                     | 22.53                     | 24                   | 0           |  |  |  |  |
| 14           | QPSK       | 1          | 5            | 22.34                    | 22.48                     | 22.42                     | 24                   | 0           |  |  |  |  |
| 14           | QPSK       | 3          | 0            | 22.43                    | 22.45                     | 22.50                     | 24                   | 0           |  |  |  |  |
| 14           | QPSK       | 3          | 1            | 22.35                    | 22.47                     | 22.38                     | 24                   | 0           |  |  |  |  |
| 14           | 16QAM      | 1          | 0            | 22.30                    | 22.45                     | 22.44                     | 24                   | 0           |  |  |  |  |
| 14           | 16QAM      | 1          | 3            | 22.30                    | 22.23                     | 22.36                     | 24                   | 0           |  |  |  |  |
| 14           | 16QAM      | 3          | 0            | 22.35                    | 22.42                     | 22.42                     | 24                   | 0           |  |  |  |  |
| 14           | 16QAM      | 3          | 1            | 22.50                    | 22.44                     | 22.42                     | 24                   | 0           |  |  |  |  |



| Band 4_Ant 1                         |            |         |           |                     |                      |                      |               |          |  |  |  |  |
|--------------------------------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------|----------|--|--|--|--|
| RF [MHz]                             | Modulation | RF Size | RF Offset | Power Low Mod [dBm] | Power Meds Mod [dBm] | Power High Mod [dBm] | Turn-up (min) | MPR (dB) |  |  |  |  |
| Channel 20500 20515 20530            |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| Frequency (MHz) 1712.5 1732.5 1745   |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| 10                                   | QPSK       | 1       | 0         | 22.36               | 22.58                | 22.83                | 24            | 0        |  |  |  |  |
| 10                                   | QPSK       | 1       | 99        | 22.60               | 22.87                | 22.46                |               |          |  |  |  |  |
| 10                                   | QPSK       | 50      | 0         | 22.55               | 22.50                | 22.55                |               |          |  |  |  |  |
| 10                                   | QPSK       | 50      | 24        | 22.56               | 22.70                | 22.63                |               |          |  |  |  |  |
| 10                                   | QPSK       | 50      | 50        | 22.61               | 22.62                | 22.63                | 24            | 0        |  |  |  |  |
| 10                                   | QPSK       | 100     | 0         | 22.70               | 22.75                | 22.66                |               |          |  |  |  |  |
| 10                                   | QPSK       | 100     | 99        | 22.73               | 22.76                | 22.46                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 49        | 22.73               | 22.80                | 22.68                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 99        | 22.76               | 22.71                | 22.77                | 24            | 0        |  |  |  |  |
| 10                                   | HQAM       | 50      | 0         | 21.55               | 21.73                | 21.87                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 24        | 21.64               | 21.71                | 21.83                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 50        | 21.66               | 21.64                | 21.49                |               |          |  |  |  |  |
| 10                                   | HQAM       | 100     | 0         | 21.64               | 21.69                | 21.58                | 23            | 1        |  |  |  |  |
| 10                                   | HQAM       | 1       | 0         | 21.76               | 21.79                | 21.88                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 49        | 21.70               | 21.74                | 21.79                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 0         | 20.54               | 20.71                | 20.66                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 24        | 20.62               | 20.70                | 20.64                | 22            | 2        |  |  |  |  |
| 10                                   | HQAM       | 100     | 0         | 20.63               | 20.65                | 20.59                |               |          |  |  |  |  |
| 10                                   | HQAM       | 100     | 99        | 20.63               | 20.65                | 20.59                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 1       | 0         | 18.58               | 18.51                | 18.55                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 1       | 99        | 18.43               | 18.53                | 18.54                | 20            | 4        |  |  |  |  |
| 10                                   | 25QAM      | 1       | 99        | 18.49               | 18.55                | 18.48                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 0         | 18.43               | 18.50                | 18.45                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 24        | 18.48               | 18.53                | 18.47                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 50        | 18.48               | 18.53                | 18.47                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 100     | 0         | 18.41               | 18.50                | 18.45                |               |          |  |  |  |  |
| Channel 20525 20515 20530            |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| Frequency (MHz) 1712.5 1732.5 1747.5 |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| 15                                   | QPSK       | 1       | 0         | 22.47               | 22.57                | 22.80                | 24            | 0        |  |  |  |  |
| 15                                   | QPSK       | 1       | 99        | 22.54               | 22.76                | 22.41                |               |          |  |  |  |  |
| 15                                   | QPSK       | 1       | 99        | 22.57               | 22.60                | 22.54                |               |          |  |  |  |  |
| 15                                   | QPSK       | 12      | 0         | 22.58               | 22.58                | 22.59                |               |          |  |  |  |  |
| 15                                   | QPSK       | 12      | 99        | 22.57               | 22.58                | 22.59                | 24            | 0        |  |  |  |  |
| 15                                   | QPSK       | 12      | 99        | 22.50               | 22.55                | 22.40                |               |          |  |  |  |  |
| 15                                   | QPSK       | 12      | 99        | 22.58               | 22.72                | 22.54                |               |          |  |  |  |  |
| 15                                   | QPSK       | 12      | 99        | 22.57               | 22.58                | 22.59                |               |          |  |  |  |  |
| 15                                   | HQAM       | 1       | 49        | 22.77               | 22.72                | 22.61                | 24            | 0        |  |  |  |  |
| 15                                   | HQAM       | 1       | 99        | 22.72               | 22.65                | 22.66                |               |          |  |  |  |  |
| 15                                   | HQAM       | 50      | 0         | 21.47               | 21.63                | 21.64                |               |          |  |  |  |  |
| 15                                   | HQAM       | 50      | 24        | 21.59               | 21.64                | 21.53                |               |          |  |  |  |  |
| 15                                   | HQAM       | 50      | 50        | 21.62               | 21.59                | 21.47                | 23            | 1        |  |  |  |  |
| 15                                   | HQAM       | 100     | 0         | 21.60               | 21.59                | 21.48                |               |          |  |  |  |  |
| 15                                   | HQAM       | 1       | 0         | 21.68               | 21.68                | 21.77                |               |          |  |  |  |  |
| 15                                   | HQAM       | 1       | 99        | 21.61               | 21.69                | 21.70                |               |          |  |  |  |  |
| 15                                   | HQAM       | 1       | 99        | 21.62               | 21.66                | 21.65                | 22            | 2        |  |  |  |  |
| 15                                   | HQAM       | 50      | 0         | 20.51               | 20.65                | 20.63                |               |          |  |  |  |  |
| 15                                   | HQAM       | 50      | 24        | 20.51               | 20.58                | 20.57                |               |          |  |  |  |  |
| 15                                   | HQAM       | 50      | 50        | 20.52               | 20.58                | 20.45                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 1       | 0         | 18.51               | 18.51                | 18.50                | 20            | 4        |  |  |  |  |
| 15                                   | 25QAM      | 1       | 99        | 18.46               | 18.52                | 18.45                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 1       | 99        | 18.46               | 18.52                | 18.45                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 50      | 0         | 18.42               | 18.53                | 18.45                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 50      | 24        | 18.40               | 18.50                | 18.39                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 50      | 50        | 18.40               | 18.47                | 18.41                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 50      | 50        | 18.37               | 18.49                | 18.38                |               |          |  |  |  |  |
| 15                                   | 25QAM      | 100     | 0         | 18.34               | 18.41                | 18.37                |               |          |  |  |  |  |
| Channel 20500 20515 20530            |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| Frequency (MHz) 1712.5 1732.5 1750   |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| 10                                   | QPSK       | 1       | 0         | 22.51               | 22.58                | 22.81                | 24            | 0        |  |  |  |  |
| 10                                   | QPSK       | 1       | 99        | 22.57               | 22.76                | 22.38                |               |          |  |  |  |  |
| 10                                   | QPSK       | 1       | 99        | 22.53               | 22.61                | 22.41                |               |          |  |  |  |  |
| 10                                   | QPSK       | 12      | 0         | 22.54               | 22.76                | 22.59                |               |          |  |  |  |  |
| 10                                   | QPSK       | 12      | 99        | 22.47               | 22.58                | 22.47                | 24            | 0        |  |  |  |  |
| 10                                   | QPSK       | 12      | 99        | 22.50               | 22.52                | 22.38                |               |          |  |  |  |  |
| 10                                   | QPSK       | 12      | 99        | 22.61               | 22.73                | 22.54                |               |          |  |  |  |  |
| 10                                   | QPSK       | 12      | 99        | 22.57               | 22.58                | 22.59                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 49        | 22.62               | 22.72                | 22.58                | 24            | 0        |  |  |  |  |
| 10                                   | HQAM       | 1       | 99        | 22.60               | 22.65                | 22.66                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 0         | 22.05               | 22.60                | 22.66                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 24        | 22.02               | 22.62                | 22.51                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 50        | 21.63               | 21.60                | 21.42                | 23            | 1        |  |  |  |  |
| 10                                   | HQAM       | 100     | 0         | 21.62               | 21.61                | 21.55                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 0         | 21.73               | 21.70                | 21.82                |               |          |  |  |  |  |
| 10                                   | HQAM       | 1       | 99        | 21.62               | 21.63                | 21.69                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 0         | 20.58               | 20.68                | 20.56                | 22            | 2        |  |  |  |  |
| 10                                   | HQAM       | 50      | 24        | 20.51               | 20.61                | 20.58                |               |          |  |  |  |  |
| 10                                   | HQAM       | 50      | 50        | 20.52               | 20.64                | 20.46                |               |          |  |  |  |  |
| 10                                   | HQAM       | 100     | 0         | 20.57               | 20.62                | 20.56                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 1       | 0         | 18.46               | 18.51                | 18.52                | 20            | 4        |  |  |  |  |
| 10                                   | 25QAM      | 1       | 99        | 18.46               | 18.52                | 18.45                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 1       | 99        | 18.46               | 18.52                | 18.45                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 0         | 18.42               | 18.53                | 18.44                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 24        | 18.37               | 18.41                | 18.40                | 20            | 4        |  |  |  |  |
| 10                                   | 25QAM      | 50      | 50        | 18.41               | 18.52                | 18.38                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 50      | 50        | 18.38               | 18.50                | 18.41                |               |          |  |  |  |  |
| 10                                   | 25QAM      | 100     | 0         | 18.30               | 18.42                | 18.42                |               |          |  |  |  |  |
| Channel 1717.5 1732.5 1752.5         |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| Frequency (MHz) 1717.5 1732.5 1752.5 |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| 5                                    | QPSK       | 1       | 0         | 22.50               | 22.64                | 22.59                | 24            | 0        |  |  |  |  |
| 5                                    | QPSK       | 1       | 99        | 22.56               | 22.78                | 22.38                |               |          |  |  |  |  |
| 5                                    | QPSK       | 1       | 99        | 22.55               | 22.63                | 22.38                |               |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 0         | 22.58               | 22.72                | 22.59                |               |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 99        | 22.47               | 22.64                | 22.47                | 24            | 0        |  |  |  |  |
| 5                                    | QPSK       | 12      | 99        | 22.50               | 22.50                | 22.42                |               |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 99        | 22.58               | 22.74                | 22.52                |               |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 99        | 22.57               | 22.58                | 22.59                |               |          |  |  |  |  |
| 5                                    | HQAM       | 1       | 49        | 22.70               | 22.76                | 22.60                | 24            | 0        |  |  |  |  |
| 5                                    | HQAM       | 1       | 99        | 22.68               | 22.68                | 22.61                |               |          |  |  |  |  |
| 5                                    | HQAM       | 50      | 0         | 22.24               | 22.59                | 22.71                |               |          |  |  |  |  |
| 5                                    | HQAM       | 50      | 24        | 22.34               | 22.65                | 22.59                |               |          |  |  |  |  |
| 5                                    | HQAM       | 50      | 50        | 21.52               | 21.63                | 21.44                | 23            | 1        |  |  |  |  |
| 5                                    | HQAM       | 100     | 0         | 21.52               | 21.68                | 21.55                |               |          |  |  |  |  |
| 5                                    | HQAM       | 1       | 0         | 21.57               | 21.69                | 21.83                |               |          |  |  |  |  |
| 5                                    | HQAM       | 1       | 99        | 21.62               | 21.66                | 21.73                |               |          |  |  |  |  |
| 5                                    | HQAM       | 50      | 0         | 20.44               | 20.61                | 20.62                | 22            | 2        |  |  |  |  |
| 5                                    | HQAM       | 50      | 24        | 20.59               | 20.64                | 20.59                |               |          |  |  |  |  |
| 5                                    | HQAM       | 50      | 50        | 20.61               | 20.61                | 20.46                |               |          |  |  |  |  |
| 5                                    | HQAM       | 100     | 0         | 20.59               | 20.63                | 20.55                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 1       | 0         | 18.46               | 18.54                | 18.50                | 20            | 4        |  |  |  |  |
| 5                                    | 25QAM      | 1       | 99        | 18.47               | 18.51                | 18.44                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 1       | 99        | 18.43               | 18.53                | 18.44                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 50      | 0         | 18.39               | 18.42                | 18.35                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 50      | 24        | 18.41               | 18.44                | 18.40                | 20            | 4        |  |  |  |  |
| 5                                    | 25QAM      | 50      | 50        | 18.41               | 18.44                | 18.40                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 50      | 50        | 18.43               | 18.44                | 18.33                |               |          |  |  |  |  |
| 5                                    | 25QAM      | 100     | 0         | 18.32               | 18.45                | 18.34                |               |          |  |  |  |  |
| Channel 1715.5 1732.5 1754.3         |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| Frequency (MHz) 1715.5 1732.5 1754.3 |            |         |           |                     |                      |                      |               |          |  |  |  |  |
| 1.4                                  | QPSK       | 1       | 0         | 22.45               | 22.50                | 22.51                | 24            | 0        |  |  |  |  |
| 1.4                                  | QPSK       | 1       | 99        | 22.51               | 22.54                | 22.42                |               |          |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 0         | 22.53               | 22.72                | 22.55                |               |          |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 99        | 22.48               | 22.63                | 22.43                |               |          |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 3         | 22.52               | 22.52                | 22.39                | 24            | 0        |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 3         | 22.67               | 22.71                | 22.46                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 49        | 22.54               | 22.73                | 22.48                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 99        | 22.57               | 22.60                | 22.65                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 0         | 22.59               | 22.63                | 22.59                | 24            | 0        |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 99        | 22.50               | 22.61                | 22.43                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 22.55               | 22.62                | 22.60                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 0         | 21.68               | 21.78                | 21.81                | 23            | 1        |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 99        | 21.69               | 21.69                | 21.82                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 0         | 21.59               | 21.62                | 21.56                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 99        | 21.48               | 21.61                | 21.57                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 21.63               | 21.64                | 21.50                | 22            | 2        |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 0         | 20.54               | 20.53                | 20.47                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 99        | 20.55               | 20.58                | 20.48                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 19.50               | 19.56                | 19.50                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 0         | 18.43               | 18.50                | 18.45                | 20            | 4        |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 99        | 18.45               | 18.51                | 18.46                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 1       | 99        | 18.45               | 18.51                | 18.46                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 0         | 18.40               | 18.51                | 18.46                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 18.42               | 18.47                | 18.42                | 20            | 4        |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 18.42               | 18.47                | 18.42                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 18.42               | 18.47                | 18.42                |               |          |  |  |  |  |
| 1.4                                  | HQAM       | 3       | 3         | 18.42               | 18.47                | 18.42                |               |          |  |  |  |  |



| Band 7_Ant 1    |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
|-----------------|------------|------------|--------------|---------------------------|----------------------------|-----------------------|------------------------|-------------------------|-------------|--|--|--|
| RF<br>MHz       | Modulation | RF<br>Size | RF<br>Offset | Power<br>Low<br>Ch / Frac | Power<br>High<br>Ch / Frac | Power<br>Low<br>21000 | Power<br>High<br>21000 | Turn-up<br>rate<br>(dB) | MPR<br>(dB) |  |  |  |
| Channel         |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| 20              | QPSK       | 1          | 0            | 22.20                     | 22.58                      | 22.35                 | 22.35                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 49           | 22.27                     | 22.55                      | 22.54                 | 22.54                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 99           | 22.20                     | 22.61                      | 22.48                 | 22.48                  | 24                      | 0           |  |  |  |
| 20              | QPSK       | 50         | 0            | 21.37                     | 21.72                      | 21.63                 | 21.63                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 50         | 24           | 21.37                     | 21.67                      | 21.63                 | 21.63                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 50         | 50           | 21.24                     | 21.80                      | 21.43                 | 21.43                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 100        | 0            | 21.38                     | 21.63                      | 21.54                 | 21.54                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 0            | 21.80                     | 21.87                      | 21.78                 | 21.78                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 49           | 21.56                     | 21.90                      | 21.89                 | 21.89                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 50         | 0            | 20.27                     | 20.65                      | 20.52                 | 20.52                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 50         | 24           | 20.41                     | 20.69                      | 20.57                 | 20.57                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 100        | 0            | 20.36                     | 20.65                      | 20.54                 | 20.54                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 0            | 20.58                     | 20.90                      | 20.74                 | 20.74                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 49           | 20.78                     | 20.78                      | 20.72                 | 20.72                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 99           | 20.47                     | 20.78                      | 20.77                 | 20.77                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 50         | 0            | 19.27                     | 19.61                      | 19.52                 | 19.52                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 50         | 50           | 19.42                     | 19.67                      | 19.64                 | 19.64                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 100        | 0            | 19.39                     | 19.75                      | 19.64                 | 19.64                  | 21                      | 3           |  |  |  |
| 10              | 256QAM     | 1          | 0            | 17.46                     | 17.48                      | 17.45                 | 17.45                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 1          | 49           | 17.33                     | 17.41                      | 17.33                 | 17.33                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 1          | 99           | 17.35                     | 17.43                      | 17.34                 | 17.34                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 50         | 0            | 17.21                     | 17.23                      | 17.19                 | 17.19                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 50         | 24           | 17.17                     | 17.25                      | 17.18                 | 17.18                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 50         | 50           | 17.11                     | 17.21                      | 17.13                 | 17.13                  | 19                      | 5           |  |  |  |
| 20              | 256QAM     | 100        | 0            | 17.18                     | 17.22                      | 17.19                 | 17.19                  | 19                      | 5           |  |  |  |
| Channel         |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| 19              | QPSK       | 1          | 0            | 22.11                     | 22.47                      | 22.31                 | 22.31                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 24           | 22.20                     | 22.58                      | 22.41                 | 22.41                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 74           | 22.09                     | 22.51                      | 22.43                 | 22.43                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 36         | 0            | 21.30                     | 21.63                      | 21.55                 | 21.55                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 36         | 24           | 21.16                     | 21.58                      | 21.49                 | 21.49                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 36         | 39           | 21.20                     | 21.51                      | 21.41                 | 21.41                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 75         | 0            | 21.31                     | 21.58                      | 21.44                 | 21.44                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 0            | 21.51                     | 21.78                      | 21.67                 | 21.67                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 37           | 21.51                     | 21.78                      | 21.67                 | 21.67                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 74           | 21.47                     | 21.85                      | 21.80                 | 21.80                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 36         | 0            | 20.36                     | 20.58                      | 20.49                 | 20.49                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 36         | 20           | 20.35                     | 20.58                      | 20.50                 | 20.50                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 36         | 39           | 20.35                     | 20.67                      | 20.54                 | 20.54                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 75         | 0            | 20.30                     | 20.63                      | 20.47                 | 20.47                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 0            | 20.51                     | 20.85                      | 20.65                 | 20.65                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 37           | 20.66                     | 20.72                      | 20.64                 | 20.64                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 74           | 20.63                     | 20.85                      | 20.78                 | 20.78                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 36         | 0            | 19.25                     | 19.52                      | 19.40                 | 19.40                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 36         | 20           | 19.31                     | 19.58                      | 19.49                 | 19.49                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 36         | 39           | 19.26                     | 19.63                      | 19.55                 | 19.55                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 75         | 0            | 19.27                     | 19.58                      | 19.48                 | 19.48                  | 21                      | 3           |  |  |  |
| 10              | 256QAM     | 1          | 0            | 17.42                     | 17.42                      | 17.37                 | 17.37                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 1          | 37           | 17.28                     | 17.34                      | 17.28                 | 17.28                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 1          | 74           | 17.26                     | 17.34                      | 17.31                 | 17.31                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 36         | 0            | 17.15                     | 17.14                      | 17.16                 | 17.16                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 36         | 20           | 17.08                     | 17.22                      | 17.12                 | 17.12                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 36         | 39           | 17.05                     | 17.13                      | 17.13                 | 17.13                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 75         | 0            | 17.14                     | 17.11                      | 17.08                 | 17.08                  | 19                      | 5           |  |  |  |
| Channel         |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| 19              | QPSK       | 1          | 0            | 22.20                     | 22.51                      | 22.28                 | 22.28                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 25           | 22.19                     | 22.59                      | 22.50                 | 22.50                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 1          | 49           | 22.16                     | 22.53                      | 22.43                 | 22.43                  | 24                      | 0           |  |  |  |
| 10              | QPSK       | 25         | 0            | 21.36                     | 21.66                      | 21.59                 | 21.59                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 25         | 12           | 21.21                     | 21.61                      | 21.56                 | 21.56                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 25         | 25           | 21.19                     | 21.57                      | 21.48                 | 21.48                  | 23                      | 1           |  |  |  |
| 10              | QPSK       | 50         | 0            | 21.29                     | 21.63                      | 21.51                 | 21.51                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 0            | 21.80                     | 21.78                      | 21.70                 | 21.70                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 25           | 21.54                     | 21.87                      | 21.81                 | 21.81                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 1          | 49           | 21.54                     | 21.88                      | 21.77                 | 21.77                  | 23                      | 1           |  |  |  |
| 10              | 16QAM      | 25         | 0            | 20.19                     | 20.58                      | 20.49                 | 20.49                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 25         | 12           | 20.35                     | 20.68                      | 20.57                 | 20.57                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 25         | 25           | 20.34                     | 20.65                      | 20.56                 | 20.56                  | 22                      | 2           |  |  |  |
| 10              | 16QAM      | 50         | 0            | 20.31                     | 20.57                      | 20.50                 | 20.50                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 0            | 20.57                     | 20.85                      | 20.65                 | 20.65                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 25           | 20.68                     | 20.70                      | 20.72                 | 20.72                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 1          | 49           | 20.44                     | 20.76                      | 20.72                 | 20.72                  | 22                      | 2           |  |  |  |
| 10              | 64QAM      | 25         | 0            | 19.26                     | 19.52                      | 19.44                 | 19.44                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 25         | 12           | 19.33                     | 19.63                      | 19.53                 | 19.53                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 25         | 25           | 19.31                     | 19.68                      | 19.61                 | 19.61                  | 21                      | 3           |  |  |  |
| 10              | 64QAM      | 50         | 0            | 19.32                     | 19.58                      | 19.48                 | 19.48                  | 21                      | 3           |  |  |  |
| 10              | 256QAM     | 1          | 0            | 17.44                     | 17.47                      | 17.45                 | 17.45                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 1          | 25           | 17.32                     | 17.33                      | 17.28                 | 17.28                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 1          | 49           | 17.29                     | 17.34                      | 17.34                 | 17.34                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 25         | 0            | 17.18                     | 17.19                      | 17.13                 | 17.13                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 25         | 12           | 17.17                     | 17.23                      | 17.08                 | 17.08                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 25         | 25           | 17.03                     | 17.17                      | 17.09                 | 17.09                  | 19                      | 5           |  |  |  |
| 10              | 256QAM     | 50         | 0            | 17.09                     | 17.19                      | 17.12                 | 17.12                  | 19                      | 5           |  |  |  |
| Channel         |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                       |                        |                         |             |  |  |  |
| 5               | QPSK       | 1          | 0            | 22.17                     | 22.54                      | 22.30                 | 22.30                  | 24                      | 0           |  |  |  |
| 5               | QPSK       | 1          | 12           | 22.20                     | 22.57                      | 22.49                 | 22.49                  | 24                      | 0           |  |  |  |
| 5               | QPSK       | 1          | 24           | 22.13                     | 22.68                      | 22.47                 | 22.47                  | 24                      | 0           |  |  |  |
| 5               | QPSK       | 12         | 0            | 21.32                     | 21.67                      | 21.61                 | 21.61                  | 23                      | 1           |  |  |  |
| 5               | QPSK       | 12         | 7            | 21.22                     | 21.64                      | 21.47                 | 21.47                  | 23                      | 1           |  |  |  |
| 5               | QPSK       | 12         | 13           | 21.17                     | 21.59                      | 21.42                 | 21.42                  | 23                      | 1           |  |  |  |
| 5               | QPSK       | 25         | 0            | 21.34                     | 21.62                      | 21.52                 | 21.52                  | 23                      | 1           |  |  |  |
| 5               | 16QAM      | 1          | 0            | 21.55                     | 21.84                      | 21.69                 | 21.69                  | 23                      | 1           |  |  |  |
| 5               | 16QAM      | 1          | 12           | 21.48                     | 21.90                      | 21.84                 | 21.84                  | 23                      | 1           |  |  |  |
| 5               | 16QAM      | 1          | 24           | 21.56                     | 21.91                      | 21.85                 | 21.85                  | 23                      | 1           |  |  |  |
| 5               | 16QAM      | 15         | 0            | 20.22                     | 20.60                      | 20.44                 | 20.44                  | 22                      | 2           |  |  |  |
| 5               | 16QAM      | 15         | 7            | 20.39                     | 20.65                      | 20.57                 | 20.57                  | 22                      | 2           |  |  |  |
| 5               | 16QAM      | 25         | 0            | 20.29                     | 20.57                      | 20.48                 | 20.48                  | 22                      | 2           |  |  |  |
| 5               | 64QAM      | 1          | 0            | 20.49                     | 20.87                      | 20.62                 | 20.62                  | 22                      | 2           |  |  |  |
| 5               | 64QAM      | 1          | 12           | 20.65                     | 20.67                      | 20.63                 | 20.63                  | 22                      | 2           |  |  |  |
| 5               | 64QAM      | 1          | 24           | 20.42                     | 20.75                      | 20.72                 | 20.72                  | 22                      | 2           |  |  |  |
| 5               | 64QAM      | 15         | 0            | 19.25                     | 19.61                      | 19.45                 | 19.45                  | 21                      | 3           |  |  |  |
| 5               | 64QAM      | 15         | 7            | 19.38                     | 19.63                      | 19.54                 | 19.54                  | 21                      | 3           |  |  |  |
| 5               | 64QAM      | 12         | 13           | 19.38                     | 19.72                      | 19.55                 | 19.55                  | 21                      | 3           |  |  |  |
| 5               | 64QAM      | 25         | 0            | 19.30                     | 19.67                      | 19.53                 | 19.53                  | 21                      | 3           |  |  |  |
| 5               | 256QAM     | 1          | 0            | 17.43                     | 17.47                      | 17.43                 | 17.43                  | 19                      | 5           |  |  |  |
| 5               | 256QAM     | 1          | 12           | 17.29                     | 17.37                      | 17.32                 | 17.32                  | 19                      | 5           |  |  |  |
| 5               | 256QAM     | 1          | 24           | 17.29                     | 17.37                      | 17.32                 | 17.32                  | 19                      | 5           |  |  |  |
| 5               | 256QAM     | 12         | 13           | 17.15                     | 17.19                      | 17.15                 | 17.15                  | 19                      | 5           |  |  |  |
| 5               | 256QAM     | 12         | 7            | 17.13                     | 17.16                      | 17.06                 | 17.06                  | 19                      | 5           |  |  |  |
| 5               | 256QAM     | 12         | 13           | 17.07                     | 17.13                      | 17.03                 | 17.03                  | 19                      | 5           |  |  |  |

| Band 13_Ant 0   |            |        |           |                     |                     |                      |                    |          |  |  |
|-----------------|------------|--------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Sub | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tuneup Margin (dB) | MPR (dB) |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 0         | 22.86               |                     |                      | 24                 | 0        |  |  |
| 10              | QPSK       | 1      | 25        | 22.89               |                     |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 49        | 22.70               |                     |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 49        | 22.70               |                     |                      |                    |          |  |  |
| 10              | QPSK       | 25     | 12        | 22.81               |                     |                      | 24                 | 0        |  |  |
| 10              | QPSK       | 25     | 25        | 22.75               |                     |                      |                    |          |  |  |
| 10              | QPSK       | 50     | 0         | 22.82               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 1      | 0         | 22.86               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 1      | 25        | 22.89               |                     |                      | 24                 | 0        |  |  |
| 10              | ISQAM      | 1      | 49        | 22.73               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 25     | 0         | 22.86               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 25     | 12        | 21.85               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 25     | 25        | 21.69               |                     |                      | 23                 | 1        |  |  |
| 10              | ISQAM      | 50     | 0         | 22.82               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 1      | 0         | 21.86               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 1      | 25        | 21.69               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 1      | 49        | 21.35               |                     |                      | 23                 | 1        |  |  |
| 10              | ISQAM      | 25     | 0         | 20.82               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 25     | 12        | 20.63               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 25     | 25        | 20.09               |                     |                      |                    |          |  |  |
| 10              | ISQAM      | 50     | 0         | 20.81               |                     |                      | 22                 | 2        |  |  |
| 10              | ZSSQAM     | 1      | 0         | 19.09               |                     |                      |                    |          |  |  |
| 10              | ZSSQAM     | 1      | 25        | 18.74               |                     |                      |                    |          |  |  |
| 10              | ZSSQAM     | 1      | 49        | 18.61               |                     |                      |                    |          |  |  |
| 10              | ZSSQAM     | 25     | 0         | 18.77               |                     |                      | 20                 | 4        |  |  |
| 10              | ZSSQAM     | 25     | 12        | 18.65               |                     |                      |                    |          |  |  |
| 10              | ZSSQAM     | 25     | 25        | 18.52               |                     |                      |                    |          |  |  |
| 10              | ZSSQAM     | 50     | 0         | 18.70               |                     |                      |                    |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 5               | QPSK       | 1      | 0         | 22.83               | 22.82               | 22.77                | 24                 | 0        |  |  |
| 5               | QPSK       | 1      | 12        | 22.77               | 22.78               | 22.79                |                    |          |  |  |
| 5               | QPSK       | 1      | 24        | 22.60               | 22.62               | 22.64                |                    |          |  |  |
| 5               | QPSK       | 12     | 0         | 22.88               | 22.84               | 22.79                |                    |          |  |  |
| 5               | QPSK       | 12     | 7         | 22.77               | 22.67               | 22.69                | 24                 | 0        |  |  |
| 5               | QPSK       | 12     | 13        | 22.72               | 22.67               | 22.74                |                    |          |  |  |
| 5               | QPSK       | 25     | 0         | 22.70               | 22.73               | 22.74                |                    |          |  |  |
| 5               | ISQAM      | 1      | 0         | 22.76               | 22.78               | 22.81                |                    |          |  |  |
| 5               | ISQAM      | 1      | 12        | 22.62               | 22.77               | 22.78                | 24                 | 0        |  |  |
| 5               | ISQAM      | 1      | 24        | 22.64               | 22.61               | 22.64                |                    |          |  |  |
| 5               | ISQAM      | 10     | 0         | 21.75               | 21.81               | 21.82                |                    |          |  |  |
| 5               | ISQAM      | 10     | 7         | 21.81               | 21.75               | 21.81                |                    |          |  |  |
| 5               | ISQAM      | 12     | 13        | 21.62               | 21.61               | 21.57                | 23                 | 1        |  |  |
| 5               | ISQAM      | 25     | 0         | 21.74               | 21.75               | 21.75                |                    |          |  |  |
| 5               | ISQAM      | 1      | 0         | 21.50               | 21.50               | 21.38                |                    |          |  |  |
| 5               | ISQAM      | 1      | 12        | 21.64               | 21.65               | 21.64                |                    |          |  |  |
| 5               | ISQAM      | 1      | 24        | 21.86               | 21.91               | 21.86                | 22                 | 2        |  |  |
| 5               | ISQAM      | 12     | 0         | 20.85               | 20.85               | 20.56                |                    |          |  |  |
| 5               | ISQAM      | 12     | 7         | 20.78               | 20.72               | 20.80                |                    |          |  |  |
| 5               | ISQAM      | 10     | 13        | 20.47               | 20.09               | 20.61                |                    |          |  |  |
| 5               | ISQAM      | 25     | 0         | 20.75               | 20.76               | 20.76                | 20                 | 4        |  |  |
| 5               | ZSSQAM     | 1      | 0         | 18.86               | 18.89               | 19.01                |                    |          |  |  |
| 5               | ZSSQAM     | 1      | 12        | 18.70               | 18.65               | 18.70                |                    |          |  |  |
| 5               | ZSSQAM     | 1      | 24        | 18.59               | 18.62               | 18.54                |                    |          |  |  |
| 5               | ZSSQAM     | 12     | 0         | 18.71               | 18.71               | 18.71                | 20                 | 4        |  |  |
| 5               | ZSSQAM     | 10     | 7         | 18.78               | 18.79               | 18.77                |                    |          |  |  |
| 5               | ZSSQAM     | 12     | 13        | 18.46               | 18.46               | 18.46                |                    |          |  |  |
| 5               | ZSSQAM     | 25     | 0         | 18.66               | 18.65               | 18.63                |                    |          |  |  |

| Band 13_Ant 1   |            |        |           |                       |                        |                        |               |          |  |  |  |  |
|-----------------|------------|--------|-----------|-----------------------|------------------------|------------------------|---------------|----------|--|--|--|--|
| BW [MHz]        | Modulation | RB Sub | RB Offset | Power Low Ch. / Freq. | Power Mids Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dBm] | MPR [dB] |  |  |  |  |
| Channel         |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| 23300           |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| Frequency (MHz) |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 22.81                 |                        |                        | 24            | 0        |  |  |  |  |
| 10              | QPSK       | 1      | 25        | 22.88                 |                        |                        |               |          |  |  |  |  |
| 10              | QPSK       | 1      | 49        | 22.49                 |                        |                        |               |          |  |  |  |  |
| 10              | QPSK       | 25     | 0         | 22.57                 |                        |                        |               |          |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 22.64                 |                        |                        | 24            | 0        |  |  |  |  |
| 10              | QPSK       | 25     | 25        | 22.41                 |                        |                        |               |          |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 22.55                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 1      | 0         | 22.84                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 1      | 25        | 22.82                 |                        |                        | 24            | 0        |  |  |  |  |
| 10              | ISQAM      | 1      | 49        | 22.52                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 25     | 0         | 22.52                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 25     | 12        | 21.36                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 25     | 25        | 21.24                 |                        |                        | 23            | 1        |  |  |  |  |
| 10              | ISQAM      | 50     | 0         | 21.34                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 1      | 0         | 21.74                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 1      | 25        | 21.68                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 1      | 49        | 21.35                 |                        |                        | 23            | 1        |  |  |  |  |
| 10              | ISQAM      | 25     | 0         | 20.41                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 25     | 12        | 20.38                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 25     | 25        | 20.03                 |                        |                        |               |          |  |  |  |  |
| 10              | ISQAM      | 50     | 0         | 20.37                 |                        |                        | 22            | 2        |  |  |  |  |
| 10              | ZSSQAM     | 1      | 0         | 18.65                 |                        |                        |               |          |  |  |  |  |
| 10              | ZSSQAM     | 1      | 25        | 18.40                 |                        |                        |               |          |  |  |  |  |
| 10              | ZSSQAM     | 1      | 49        | 18.26                 |                        |                        |               |          |  |  |  |  |
| 10              | ZSSQAM     | 25     | 0         | 18.32                 |                        |                        |               |          |  |  |  |  |
| 10              | ZSSQAM     | 25     | 12        | 18.24                 |                        |                        | 20            | 4        |  |  |  |  |
| 10              | ZSSQAM     | 25     | 25        | 18.23                 |                        |                        |               |          |  |  |  |  |
| 10              | ZSSQAM     | 50     | 0         | 18.22                 |                        |                        |               |          |  |  |  |  |
| 23305           |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| 23305           |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| Frequency (MHz) |            |        |           |                       |                        |                        |               |          |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 22.57                 | 22.58                  | 22.54                  | 24            | 0        |  |  |  |  |
| 5               | QPSK       | 1      | 12        | 22.63                 | 22.61                  | 22.61                  |               |          |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.37                 | 22.39                  | 22.46                  |               |          |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 22.47                 | 22.51                  | 22.47                  |               |          |  |  |  |  |
| 5               | QPSK       | 12     | 7         | 22.43                 | 22.47                  | 22.47                  | 24            | 0        |  |  |  |  |
| 5               | QPSK       | 12     | 13        | 22.39                 | 22.35                  | 22.38                  |               |          |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 22.52                 | 22.48                  | 22.49                  |               |          |  |  |  |  |
| 5               | ISQAM      | 1      | 0         | 22.62                 | 22.65                  | 22.63                  |               |          |  |  |  |  |
| 5               | ISQAM      | 1      | 12        | 22.55                 | 22.50                  | 22.57                  | 24            | 0        |  |  |  |  |
| 5               | ISQAM      | 1      | 24        | 22.48                 | 22.41                  | 22.40                  |               |          |  |  |  |  |
| 5               | ISQAM      | 10     | 0         | 21.37                 | 21.36                  | 21.36                  |               |          |  |  |  |  |
| 5               | ISQAM      | 10     | 7         | 21.35                 | 21.25                  | 21.24                  |               |          |  |  |  |  |
| 5               | ISQAM      | 12     | 13        | 21.26                 | 21.21                  | 21.26                  | 23            | 1        |  |  |  |  |
| 5               | ISQAM      | 25     | 0         | 21.26                 | 21.26                  | 21.25                  |               |          |  |  |  |  |
| 5               | ISQAM      | 1      | 0         | 21.69                 | 21.69                  | 21.58                  |               |          |  |  |  |  |
| 5               | ISQAM      | 1      | 12        | 21.68                 | 21.63                  | 21.62                  |               |          |  |  |  |  |
| 5               | ISQAM      | 1      | 24        | 21.26                 | 21.33                  | 21.26                  | 23            | 1        |  |  |  |  |
| 5               | ISQAM      | 12     | 0         | 20.37                 | 20.36                  | 20.52                  |               |          |  |  |  |  |
| 5               | ISQAM      | 12     | 7         | 20.26                 | 20.27                  | 20.33                  |               |          |  |  |  |  |
| 5               | ISQAM      | 10     | 13        | 20.16                 | 20.13                  | 20.11                  |               |          |  |  |  |  |
| 5               | ISQAM      | 25     | 0         | 20.25                 | 20.27                  | 20.33                  | 22            | 2        |  |  |  |  |
| 5               | ZSSQAM     | 1      | 0         | 18.52                 | 18.45                  | 18.46                  |               |          |  |  |  |  |
| 5               | ZSSQAM     | 1      | 12        | 18.33                 | 18.33                  | 18.37                  |               |          |  |  |  |  |
| 5               | ZSSQAM     | 1      | 24        | 18.25                 | 18.25                  | 18.25                  |               |          |  |  |  |  |
| 5               | ZSSQAM     | 12     | 0         | 18.27                 | 18.25                  | 18.25                  | 20            | 4        |  |  |  |  |
| 5               | ZSSQAM     | 12     | 7         | 18.29                 | 18.26                  | 18.26                  |               |          |  |  |  |  |
| 5               | ZSSQAM     | 12     | 13        | 18.20                 | 18.13                  | 18.13                  |               |          |  |  |  |  |
| 5               | ZSSQAM     | 25     | 0         | 18.14                 | 18.14                  | 18.14                  |               |          |  |  |  |  |



| Band 17_Ant 0   |            |         |           |                     |                      |                      |                   |          |  |  |  |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|-------------------|----------|--|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. 1 [W] | Power Mids Ch. 2 [W] | Power High Ch. 3 [W] | Tuneup Int. (min) | MPR (dB) |  |  |  |  |
| Channel         |            |         |           |                     |                      |                      |                   |          |  |  |  |  |
|                 |            |         |           | 23760               | 23760                | 23800                |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.72               | 22.71                | 22.75                | 24                | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 26        | 22.81               | 22.82                | 22.83                |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.83               | 22.89                | 22.85                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.85               | 22.84                | 22.82                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.83               | 22.91                | 22.80                | 24                | 0        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.86               | 22.88                | 22.78                |                   |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.85               | 22.81                | 22.85                |                   |          |  |  |  |  |
| 10              | ISGMM      | 1       | 0         | 22.71               | 22.66                | 22.83                |                   |          |  |  |  |  |
| 10              | ISGMM      | 1       | 25        | 22.82               | 22.84                | 22.85                | 24                | 0        |  |  |  |  |
| 10              | ISGMM      | 1       | 49        | 22.89               | 22.94                | 22.85                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 0         | 22.85               | 22.83                | 22.85                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 12        | 22.77               | 22.74                | 22.72                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 25        | 22.82               | 22.76                | 22.82                | 23                | 1        |  |  |  |  |
| 10              | ISGMM      | 50      | 0         | 22.82               | 22.76                | 22.82                |                   |          |  |  |  |  |
| 10              | ISGMM      | 50      | 0         | 22.67               | 22.68                | 22.67                |                   |          |  |  |  |  |
| 10              | ISGMM      | 1       | 0         | 22.21               | 22.23                | 22.33                |                   |          |  |  |  |  |
| 10              | ISGMM      | 1       | 25        | 22.32               | 22.35                | 22.33                | 23                | 1        |  |  |  |  |
| 10              | ISGMM      | 1       | 49        | 22.36               | 22.40                | 22.27                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 0         | 21.86               | 21.84                | 21.90                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 12        | 21.15               | 21.11                | 21.10                |                   |          |  |  |  |  |
| 10              | ISGMM      | 25      | 25        | 21.14               | 21.13                | 21.13                | 22                | 2        |  |  |  |  |
| 10              | ISGMM      | 50      | 0         | 21.06               | 21.06                | 21.07                |                   |          |  |  |  |  |
| 10              | ISGMM      | 1       | 0         | 19.11               | 19.13                | 19.11                |                   |          |  |  |  |  |
| 10              | SSGMM      | 1       | 0         | 19.38               | 19.46                | 19.42                |                   |          |  |  |  |  |
| 10              | SSGMM      | 1       | 25        | 19.39               | 19.36                | 19.42                | 20                | 4        |  |  |  |  |
| 10              | SSGMM      | 1       | 49        | 19.26               | 19.30                | 19.23                |                   |          |  |  |  |  |
| 10              | SSGMM      | 25      | 0         | 19.13               | 19.15                | 19.10                |                   |          |  |  |  |  |
| 10              | SSGMM      | 25      | 12        | 19.16               | 19.20                | 19.19                |                   |          |  |  |  |  |
| 10              | SSGMM      | 25      | 25        | 19.20               | 19.23                | 19.21                | 20                | 4        |  |  |  |  |
| 10              | SSGMM      | 50      | 0         | 19.00               | 19.14                | 19.12                |                   |          |  |  |  |  |
| Channel         |            |         |           |                     |                      |                      |                   |          |  |  |  |  |
|                 |            |         |           | 23765               | 23765                | 23825                |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.63               | 22.61                | 22.68                | 24                | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.79               | 22.89                | 22.87                |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.80               | 22.80                | 22.82                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.78               | 22.88                | 22.77                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.72               | 22.82                | 22.77                | 24                | 0        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.78               | 22.75                | 22.69                |                   |          |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.73               | 22.85                | 22.74                |                   |          |  |  |  |  |
| 5               | ISGMM      | 1       | 0         | 22.66               | 22.60                | 22.73                |                   |          |  |  |  |  |
| 5               | ISGMM      | 1       | 12        | 22.82               | 22.84                | 22.85                | 24                | 0        |  |  |  |  |
| 5               | ISGMM      | 1       | 24        | 22.85               | 22.89                | 22.79                |                   |          |  |  |  |  |
| 5               | ISGMM      | 12      | 0         | 21.87               | 21.92                | 21.87                |                   |          |  |  |  |  |
| 5               | ISGMM      | 12      | 7         | 22.02               | 22.09                | 22.05                |                   |          |  |  |  |  |
| 5               | ISGMM      | 12      | 13        | 22.03               | 22.05                | 22.08                | 23                | 1        |  |  |  |  |
| 5               | ISGMM      | 25      | 0         | 21.87               | 22.01                | 22.01                |                   |          |  |  |  |  |
| 5               | ISGMM      | 1       | 0         | 22.10               | 22.19                | 22.05                |                   |          |  |  |  |  |
| 5               | ISGMM      | 1       | 12        | 22.28               | 22.44                | 22.33                |                   |          |  |  |  |  |
| 5               | ISGMM      | 1       | 24        | 22.32               | 22.30                | 22.17                | 22                | 2        |  |  |  |  |
| 5               | ISGMM      | 12      | 0         | 20.94               | 20.94                | 20.99                |                   |          |  |  |  |  |
| 5               | ISGMM      | 12      | 7         | 21.05               | 21.06                | 21.02                |                   |          |  |  |  |  |
| 5               | ISGMM      | 12      | 13        | 21.05               | 21.04                | 21.01                |                   |          |  |  |  |  |
| 5               | ISGMM      | 25      | 0         | 21.01               | 20.97                | 20.96                | 20                | 4        |  |  |  |  |
| 5               | SSGMM      | 1       | 0         | 19.08               | 19.02                | 19.06                |                   |          |  |  |  |  |
| 5               | SSGMM      | 1       | 12        | 19.02               | 19.02                | 19.05                |                   |          |  |  |  |  |
| 5               | SSGMM      | 1       | 24        | 19.21               | 19.19                | 19.12                |                   |          |  |  |  |  |
| 5               | SSGMM      | 12      | 0         | 19.00               | 19.03                | 19.08                | 20                | 4        |  |  |  |  |
| 5               | SSGMM      | 12      | 7         | 19.06               | 19.12                | 19.09                |                   |          |  |  |  |  |
| 5               | SSGMM      | 12      | 13        | 19.09               | 19.14                | 19.12                |                   |          |  |  |  |  |
| 5               | SSGMM      | 25      | 0         | 19.01               | 19.04                | 19.09                |                   |          |  |  |  |  |

| Band 17_Ant 1     |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
|-------------------|------------|--------|-----------|---------------------|----------------------|----------------------|-------------------|----------|--|--|--|--|
| BW [MHz]          | Modulation | RB Spd | RB Offset | Power Low Ch. 1 [W] | Power Mids Ch. 2 [W] | Power High Ch. 3 [W] | Tuneup int. [min] | MPR [dB] |  |  |  |  |
| Channel           |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| 23760 23760 23800 |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| Frequency (MHz)   |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| 10                | QPSK       | 1      | 0         | 22.64               | 22.64                | 22.62                | 24                | 0        |  |  |  |  |
| 10                | QPSK       | 1      | 26        | 22.68               | 22.68                | 22.83                |                   |          |  |  |  |  |
| 10                | QPSK       | 1      | 49        | 22.74               | 22.79                | 22.82                |                   |          |  |  |  |  |
| 10                | QPSK       | 25     | 0         | 22.76               | 22.85                | 22.80                |                   |          |  |  |  |  |
| 10                | QPSK       | 25     | 12        | 22.67               | 22.80                | 22.79                | 24                | 0        |  |  |  |  |
| 10                | QPSK       | 25     | 25        | 22.73               | 22.83                | 22.71                |                   |          |  |  |  |  |
| 10                | QPSK       | 50     | 0         | 22.73               | 22.81                | 22.77                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 0         | 22.56               | 22.55                | 22.66                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 25        | 22.79               | 22.79                | 22.83                | 24                | 0        |  |  |  |  |
| 10                | ISGMM      | 1      | 49        | 22.81               | 22.86                | 22.84                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 0         | 21.86               | 21.86                | 21.93                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 12        | 21.90               | 21.92                | 21.91                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 25        | 21.96               | 21.96                | 22.00                | 23                | 1        |  |  |  |  |
| 10                | ISGMM      | 50     | 0         | 21.84               | 21.84                | 21.85                |                   |          |  |  |  |  |
| 10                | ISGMM      | 50     | 0         | 21.89               | 21.92                | 21.97                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 0         | 22.15               | 22.09                | 22.14                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 25        | 22.15               | 22.09                | 22.14                | 23                | 1        |  |  |  |  |
| 10                | ISGMM      | 1      | 49        | 22.08               | 22.12                | 22.13                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 0         | 20.79               | 20.80                | 20.85                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 12        | 20.91               | 20.90                | 20.91                |                   |          |  |  |  |  |
| 10                | ISGMM      | 50     | 0         | 20.85               | 20.86                | 20.90                | 22                | 2        |  |  |  |  |
| 10                | ISGMM      | 50     | 0         | 19.79               | 19.87                | 19.78                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 0         | 19.87               | 19.95                | 19.89                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 25        | 19.87               | 19.95                | 19.89                |                   |          |  |  |  |  |
| 10                | ISGMM      | 1      | 49        | 18.96               | 19.00                | 18.91                | 20                | 4        |  |  |  |  |
| 10                | ISGMM      | 25     | 0         | 18.86               | 18.88                | 18.78                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 12        | 18.86               | 18.88                | 18.85                |                   |          |  |  |  |  |
| 10                | ISGMM      | 25     | 25        | 18.89               | 18.93                | 18.83                |                   |          |  |  |  |  |
| 10                | SSGMM      | 1      | 0         | 18.83               | 18.89                | 18.87                | 20                | 4        |  |  |  |  |
| 10                | SSGMM      | 1      | 25        | 18.83               | 18.89                | 18.87                |                   |          |  |  |  |  |
| 10                | SSGMM      | 1      | 49        | 18.83               | 18.89                | 18.87                |                   |          |  |  |  |  |
| 10                | SSGMM      | 25     | 0         | 18.83               | 18.89                | 18.87                |                   |          |  |  |  |  |
| Channel           |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| 23765 23760 23825 |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| Frequency (MHz)   |            |        |           |                     |                      |                      |                   |          |  |  |  |  |
| 5                 | QPSK       | 1      | 0         | 22.50               | 22.50                | 22.50                | 24                | 0        |  |  |  |  |
| 5                 | QPSK       | 1      | 12        | 22.71               | 22.78                | 22.72                |                   |          |  |  |  |  |
| 5                 | QPSK       | 1      | 24        | 22.71               | 22.73                | 22.72                |                   |          |  |  |  |  |
| 5                 | QPSK       | 12     | 0         | 22.68               | 22.76                | 22.77                |                   |          |  |  |  |  |
| 5                 | QPSK       | 12     | 7         | 22.69               | 22.74                | 22.69                | 24                | 0        |  |  |  |  |
| 5                 | QPSK       | 12     | 13        | 22.67               | 22.76                | 22.64                |                   |          |  |  |  |  |
| 5                 | QPSK       | 25     | 0         | 22.68               | 22.72                | 22.72                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 1      | 0         | 22.45               | 22.50                | 22.50                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 1      | 12        | 22.80               | 22.89                | 22.78                | 24                | 0        |  |  |  |  |
| 5                 | ISGMM      | 1      | 24        | 22.72               | 22.72                | 22.72                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 12     | 0         | 21.81               | 21.81                | 21.72                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 12     | 7         | 21.79               | 21.84                | 21.79                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 12     | 13        | 21.90               | 21.93                | 21.88                | 23                | 1        |  |  |  |  |
| 5                 | ISGMM      | 25     | 0         | 21.76               | 21.75                | 21.74                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 1      | 0         | 21.82               | 21.85                | 21.84                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 1      | 12        | 22.10               | 22.06                | 22.08                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 1      | 24        | 21.87               | 22.08                | 22.00                | 23                | 1        |  |  |  |  |
| 5                 | ISGMM      | 12     | 0         | 20.72               | 20.74                | 20.79                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 12     | 7         | 20.80               | 20.86                | 20.79                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 12     | 13        | 20.81               | 20.81                | 20.84                |                   |          |  |  |  |  |
| 5                 | ISGMM      | 25     | 0         | 20.74               | 20.77                | 20.82                | 22                | 2        |  |  |  |  |
| 5                 | SSGMM      | 1      | 0         | 19.74               | 19.83                | 19.71                |                   |          |  |  |  |  |
| 5                 | SSGMM      | 1      | 12        | 18.86               | 18.85                | 18.77                | 20                | 4        |  |  |  |  |
| 5                 | SSGMM      | 1      | 24        | 18.86               | 18.86                | 18.81                |                   |          |  |  |  |  |
| 5                 | SSGMM      | 12     | 0         | 18.83               | 18.77                | 18.73                |                   |          |  |  |  |  |
| 5                 | SSGMM      | 12     | 7         | 18.78               | 18.81                | 18.79                |                   |          |  |  |  |  |
| 5                 | SSGMM      | 12     | 13        | 18.89               | 18.89                | 18.84                | 20                | 4        |  |  |  |  |
| 5                 | SSGMM      | 25     | 0         | 18.71               | 18.81                | 18.74                |                   |          |  |  |  |  |

| Band 26(FCC)_Ant 0 |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
|--------------------|------------|-------------|--------------|---------------------------|----------------------------|----------------------------|-------------------------|-------------|--|--|--|--|
| BW<br>(MHz)        | Modulation | RB<br>Start | RB<br>Offset | Power<br>Low<br>Ch / Freq | Power<br>Mids<br>Ch / Freq | Power<br>High<br>Ch / Freq | Tune-up<br>int<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| Channel            |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| Frequency (MHz)    |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| 15                 | QPSK       | 1           | 0            | 22.11                     | 22.42                      | 22.43                      | 24                      | 0           |  |  |  |  |
| 15                 | QPSK       | 1           | 37           | 22.42                     | 22.48                      | 22.53                      |                         |             |  |  |  |  |
| 15                 | QPSK       | 1           | 74           | 22.43                     | 22.56                      | 22.52                      |                         |             |  |  |  |  |
| 15                 | QPSK       | 36          | 20           | 22.44                     | 22.59                      | 22.52                      |                         |             |  |  |  |  |
| 15                 | QPSK       | 36          | 39           | 22.53                     | 22.58                      | 22.51                      | 24                      | 0           |  |  |  |  |
| 15                 | QPSK       | 75          | 0            | 22.54                     | 22.57                      | 22.55                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 1           | 0            | 22.35                     | 22.41                      | 22.44                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 1           | 37           | 22.34                     | 22.47                      | 22.42                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 1           | 74           | 22.40                     | 22.47                      | 22.45                      | 24                      | 0           |  |  |  |  |
| 15                 | HQDM       | 36          | 0            | 21.37                     | 21.48                      | 21.62                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 36          | 20           | 21.46                     | 21.62                      | 21.52                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 36          | 39           | 21.49                     | 21.68                      | 21.77                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 75          | 0            | 21.48                     | 21.61                      | 21.62                      | 23                      | 1           |  |  |  |  |
| 15                 | HQDM       | 1           | 0            | 21.50                     | 21.57                      | 21.53                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 1           | 37           | 21.59                     | 21.67                      | 21.66                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 1           | 74           | 21.52                     | 21.70                      | 21.65                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 36          | 0            | 20.36                     | 20.54                      | 20.55                      | 22                      | 2           |  |  |  |  |
| 15                 | HQDM       | 36          | 20           | 20.44                     | 20.62                      | 20.65                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 36          | 39           | 20.45                     | 20.58                      | 20.75                      |                         |             |  |  |  |  |
| 15                 | HQDM       | 75          | 0            | 20.43                     | 20.59                      | 20.57                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 1           | 0            | 18.14                     | 18.21                      | 18.20                      | 20                      | 4           |  |  |  |  |
| 15                 | ZSSBDM     | 1           | 37           | 18.16                     | 18.22                      | 18.21                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 1           | 74           | 18.20                     | 18.25                      | 18.23                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 36          | 0            | 18.15                     | 18.09                      | 18.11                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 36          | 20           | 18.12                     | 18.18                      | 18.13                      | 20                      | 4           |  |  |  |  |
| 15                 | ZSSBDM     | 36          | 39           | 18.18                     | 18.20                      | 18.18                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 75          | 0            | 18.14                     | 18.16                      | 18.11                      |                         |             |  |  |  |  |
| 15                 | ZSSBDM     | 75          | 0            | 18.14                     | 18.15                      | 18.15                      |                         |             |  |  |  |  |
| Channel            |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| Frequency (MHz)    |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| 10                 | QPSK       | 1           | 0            | 22.15                     | 22.31                      | 22.30                      | 24                      | 0           |  |  |  |  |
| 10                 | QPSK       | 1           | 25           | 22.42                     | 22.49                      | 22.52                      |                         |             |  |  |  |  |
| 10                 | QPSK       | 1           | 49           | 22.40                     | 22.48                      | 22.44                      |                         |             |  |  |  |  |
| 10                 | QPSK       | 25          | 0            | 22.54                     | 22.47                      | 22.48                      |                         |             |  |  |  |  |
| 10                 | QPSK       | 25          | 12           | 22.46                     | 22.47                      | 22.47                      | 24                      | 0           |  |  |  |  |
| 10                 | QPSK       | 25          | 35           | 22.42                     | 22.47                      | 22.47                      |                         |             |  |  |  |  |
| 10                 | QPSK       | 50          | 0            | 22.45                     | 22.52                      | 22.46                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 1           | 0            | 22.35                     | 22.38                      | 22.36                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 1           | 25           | 22.22                     | 22.43                      | 22.36                      | 24                      | 0           |  |  |  |  |
| 10                 | HQDM       | 1           | 49           | 22.35                     | 22.42                      | 22.37                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 25          | 0            | 21.13                     | 21.16                      | 21.18                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 25          | 12           | 21.35                     | 21.59                      | 21.59                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 25          | 25           | 21.38                     | 21.60                      | 21.79                      | 23                      | 1           |  |  |  |  |
| 10                 | HQDM       | 50          | 0            | 21.41                     | 21.53                      | 21.53                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 1           | 0            | 21.41                     | 21.52                      | 21.47                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 1           | 25           | 21.51                     | 21.68                      | 21.77                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 1           | 49           | 21.52                     | 21.63                      | 21.67                      | 23                      | 1           |  |  |  |  |
| 10                 | HQDM       | 25          | 0            | 20.36                     | 20.42                      | 20.51                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 25          | 12           | 20.33                     | 20.57                      | 20.58                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 25          | 25           | 20.37                     | 20.57                      | 20.75                      |                         |             |  |  |  |  |
| 10                 | HQDM       | 50          | 0            | 20.35                     | 20.63                      | 20.58                      | 22                      | 2           |  |  |  |  |
| 10                 | ZSSBDM     | 1           | 0            | 18.02                     | 18.16                      | 18.16                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 1           | 25           | 18.07                     | 18.17                      | 18.08                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 1           | 49           | 18.11                     | 18.22                      | 18.20                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 25          | 0            | 18.03                     | 18.05                      | 18.06                      | 20                      | 4           |  |  |  |  |
| 10                 | ZSSBDM     | 25          | 12           | 18.06                     | 18.15                      | 18.08                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 25          | 25           | 18.09                     | 18.16                      | 18.11                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 50          | 0            | 18.05                     | 18.12                      | 18.02                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 50          | 0            | 18.05                     | 18.12                      | 18.02                      |                         |             |  |  |  |  |
| 10                 | ZSSBDM     | 50          | 0            | 18.05                     | 18.12                      | 18.02                      |                         |             |  |  |  |  |
| Channel            |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| Frequency (MHz)    |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| 5                  | QPSK       | 1           | 0            | 22.15                     | 22.36                      | 22.49                      | 24                      | 0           |  |  |  |  |
| 5                  | QPSK       | 1           | 12           | 22.44                     | 22.49                      | 22.45                      |                         |             |  |  |  |  |
| 5                  | QPSK       | 1           | 24           | 22.39                     | 22.48                      | 22.41                      |                         |             |  |  |  |  |
| 5                  | QPSK       | 12          | 0            | 22.48                     | 22.54                      | 22.48                      |                         |             |  |  |  |  |
| 5                  | QPSK       | 12          | 7            | 22.47                     | 22.51                      | 22.47                      | 24                      | 0           |  |  |  |  |
| 5                  | QPSK       | 12          | 13           | 22.49                     | 22.52                      | 22.48                      |                         |             |  |  |  |  |
| 5                  | QPSK       | 25          | 0            | 22.48                     | 22.50                      | 22.48                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 1           | 0            | 22.39                     | 22.37                      | 22.36                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 1           | 12           | 22.22                     | 22.39                      | 22.36                      | 24                      | 0           |  |  |  |  |
| 5                  | HQDM       | 1           | 24           | 22.39                     | 22.35                      | 22.42                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 12          | 0            | 21.18                     | 21.19                      | 21.18                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 12          | 7            | 21.40                     | 21.59                      | 21.57                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 12          | 13           | 21.46                     | 21.62                      | 21.74                      | 23                      | 1           |  |  |  |  |
| 5                  | HQDM       | 25          | 0            | 21.37                     | 21.54                      | 21.57                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 1           | 0            | 21.42                     | 21.51                      | 21.44                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 1           | 12           | 21.53                     | 21.60                      | 21.79                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 1           | 24           | 21.57                     | 21.59                      | 21.62                      | 23                      | 1           |  |  |  |  |
| 5                  | HQDM       | 12          | 0            | 20.31                     | 20.46                      | 20.51                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 12          | 7            | 20.38                     | 20.53                      | 20.56                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 12          | 13           | 20.43                     | 20.54                      | 20.65                      |                         |             |  |  |  |  |
| 5                  | HQDM       | 25          | 0            | 20.34                     | 20.46                      | 20.58                      | 22                      | 2           |  |  |  |  |
| 5                  | ZSSBDM     | 1           | 0            | 18.04                     | 18.16                      | 18.11                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 1           | 12           | 18.08                     | 18.14                      | 18.15                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 1           | 24           | 18.10                     | 18.15                      | 18.18                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 12          | 0            | 18.02                     | 18.01                      | 18.01                      | 20                      | 4           |  |  |  |  |
| 5                  | ZSSBDM     | 12          | 7            | 18.01                     | 18.15                      | 18.08                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 12          | 13           | 18.09                     | 18.13                      | 18.06                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 25          | 0            | 18.07                     | 18.06                      | 18.00                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 25          | 0            | 18.07                     | 18.06                      | 18.00                      |                         |             |  |  |  |  |
| 5                  | ZSSBDM     | 25          | 0            | 18.07                     | 18.06                      | 18.00                      |                         |             |  |  |  |  |
| Channel            |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| Frequency (MHz)    |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| 3                  | QPSK       | 1           | 0            | 22.20                     | 22.32                      | 22.51                      | 24                      | 0           |  |  |  |  |
| 3                  | QPSK       | 1           | 8            | 22.39                     | 22.40                      | 22.51                      |                         |             |  |  |  |  |
| 3                  | QPSK       | 1           | 14           | 22.31                     | 22.52                      | 22.40                      |                         |             |  |  |  |  |
| 3                  | QPSK       | 8           | 0            | 22.50                     | 22.56                      | 22.48                      |                         |             |  |  |  |  |
| 3                  | QPSK       | 8           | 4            | 22.39                     | 22.49                      | 22.45                      | 24                      | 0           |  |  |  |  |
| 3                  | QPSK       | 8           | 7            | 22.48                     | 22.54                      | 22.48                      |                         |             |  |  |  |  |
| 3                  | QPSK       | 16          | 0            | 22.43                     | 22.49                      | 22.44                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 1           | 0            | 22.25                     | 22.38                      | 22.32                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 1           | 8            | 22.31                     | 22.41                      | 22.34                      | 24                      | 0           |  |  |  |  |
| 3                  | HQDM       | 1           | 14           | 22.41                     | 22.47                      | 22.41                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 8           | 0            | 21.38                     | 21.42                      | 21.50                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 8           | 4            | 21.37                     | 21.55                      | 21.37                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 16          | 0            | 21.43                     | 21.63                      | 21.63                      | 23                      | 1           |  |  |  |  |
| 3                  | HQDM       | 1           | 0            | 21.45                     | 21.49                      | 21.47                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 1           | 8            | 21.39                     | 21.47                      | 21.44                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 1           | 14           | 21.50                     | 21.67                      | 21.54                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 16          | 0            | 21.43                     | 21.49                      | 21.44                      | 23                      | 1           |  |  |  |  |
| 3                  | HQDM       | 8           | 0            | 20.36                     | 20.55                      | 20.55                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 8           | 7            | 20.36                     | 20.60                      | 20.66                      |                         |             |  |  |  |  |
| 3                  | HQDM       | 16          | 0            | 20.36                     | 20.56                      | 20.60                      |                         |             |  |  |  |  |
| 3                  | ZSSBDM     | 1           | 0            | 18.02                     | 18.09                      | 18.17                      | 20                      | 4           |  |  |  |  |
| 3                  | ZSSBDM     | 1           | 8            | 18.05                     | 18.18                      | 18.12                      |                         |             |  |  |  |  |
| 3                  | ZSSBDM     | 1           | 14           | 18.12                     | 18.24                      | 18.14                      |                         |             |  |  |  |  |
| 3                  | ZSSBDM     | 8           | 0            | 18.11                     | 18.05                      | 18.05                      |                         |             |  |  |  |  |
| 3                  | ZSSBDM     | 8           | 4            | 18.04                     | 18.10                      | 18.08                      |                         |             |  |  |  |  |
| 3                  | ZSSBDM     | 16          | 0            | 18.02                     | 18.12                      | 18.02                      |                         |             |  |  |  |  |
| Channel            |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| Frequency (MHz)    |            |             |              |                           |                            |                            |                         |             |  |  |  |  |
| 1.4                | QPSK       | 1           | 0            | 22.24                     | 22.35                      | 22.40                      | 24                      | 0           |  |  |  |  |
| 1.4                | QPSK       | 1           | 3            | 22.35                     | 22.56                      | 22.53                      |                         |             |  |  |  |  |
| 1.4                | QPSK       | 1           | 5            | 22.38                     | 22.59                      | 22.43                      |                         |             |  |  |  |  |
| 1.4                | QPSK       | 3           | 0            | 22.46                     | 22.57                      | 22.50                      |                         |             |  |  |  |  |
| 1.4                | QPSK       | 3           | 1            | 22.36                     | 22.54                      | 22.40                      | 24                      | 0           |  |  |  |  |
| 1.4                | QPSK       | 3           | 3            | 22.46                     | 22.49                      | 22.45                      |                         |             |  |  |  |  |
| 1.4                | QPSK       | 6           | 0            | 22.48                     | 22.53                      | 22.47                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 1           | 0            | 22.23                     | 22.35                      | 22.37                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 1           | 3            | 22.23                     | 22.39                      | 22.37                      | 24                      | 0           |  |  |  |  |
| 1.4                | HQDM       | 3           | 0            | 22.39                     | 22.44                      | 22.41                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 3           | 1            | 22.41                     | 22.60                      | 22.41                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 6           | 0            | 22.42                     | 22.48                      | 22.44                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 6           | 0            | 21.44                     | 21.52                      | 21.63                      | 23                      | 1           |  |  |  |  |
| 1.4                | HQDM       | 1           | 0            | 21.47                     | 21.51                      | 21.48                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 1           | 3            | 21.58                     | 21.61                      | 21.61                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 3           | 0            | 21.55                     | 21.66                      | 21.57                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 3           | 1            | 21.51                     | 21.78                      | 21.72                      | 23                      | 1           |  |  |  |  |
| 1.4                | HQDM       | 6           | 0            | 21.37                     | 21.53                      | 21.66                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 3           | 0            | 21.46                     | 21.47                      | 21.41                      |                         |             |  |  |  |  |
| 1.4                | HQDM       | 3           | 3            | 21.50                     | 21.63                      | 21.53                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 1           | 0            | 18.11                     | 18.10                      | 18.12                      | 22                      | 2           |  |  |  |  |
| 1.4                | ZSSBDM     | 1           | 3            | 18.05                     | 18.12                      | 18.16                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 1           | 5            | 18.12                     | 18.20                      | 18.12                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 3           | 0            | 18.10                     | 18.04                      | 18.02                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 3           | 1            | 18.08                     | 18.08                      | 18.10                      | 20                      | 4           |  |  |  |  |
| 1.4                | ZSSBDM     | 6           | 0            | 18.12                     | 18.13                      | 18.08                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 6           | 0            | 18.11                     | 18.12                      | 18.06                      |                         |             |  |  |  |  |
| 1.4                | ZSSBDM     | 6           | 0            | 18.11                     | 18.12                      | 18.06                      |                         |             |  |  |  |  |





| Band 30_Ant 9                 |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
|-------------------------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|-------------------|----------|--|--|--|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Free | Power Mids Ch. / Free | Power High Ch. / Free | Tuneup Int. (dBm) | MPR (dB) |  |  |  |  |
| Channel                       |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
| Frequency 27710               |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 1       | 0         | 22.28                |                       |                       | 24                | 0        |  |  |  |  |
| 10                            | QPSK       | 1       | 25        | 22.69                |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 1       | 49        | 23.31                |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 25      | 0         | 23.41                |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 25      | 12        | 23.32                |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 25      | 25        | 23.21                |                       |                       |                   |          |  |  |  |  |
| 10                            | QPSK       | 50      | 0         | 23.39                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 1       | 0         | 23.33                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 1       | 25        | 23.43                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 1       | 49        | 23.42                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 25      | 0         | 23.22                |                       |                       | 24                | 0        |  |  |  |  |
| 10                            | ISQAM      | 25      | 12        | 23.09                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 25      | 25        | 22.99                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 50      | 0         | 23.03                |                       |                       | 23.5              | 0.5      |  |  |  |  |
| 10                            | ISQAM      | 1       | 0         | 23.03                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 1       | 25        | 23.28                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 1       | 49        | 23.11                |                       |                       | 22.5              | 1.5      |  |  |  |  |
| 10                            | ISQAM      | 25      | 0         | 21.80                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 25      | 12        | 22.09                |                       |                       |                   |          |  |  |  |  |
| 10                            | ISQAM      | 25      | 25        | 22.02                |                       |                       | 20.5              | 3.5      |  |  |  |  |
| 10                            | ISQAM      | 50      | 0         | 22.00                |                       |                       |                   |          |  |  |  |  |
| 10                            | ZSSQAM     | 1       | 0         | 19.85                |                       |                       | 20.5              | 3.5      |  |  |  |  |
| 10                            | ZSSQAM     | 1       | 25        | 19.94                |                       |                       |                   |          |  |  |  |  |
| 10                            | ZSSQAM     | 1       | 49        | 20.01                |                       |                       | 20.5              | 3.5      |  |  |  |  |
| 10                            | ZSSQAM     | 25      | 0         | 19.80                |                       |                       |                   |          |  |  |  |  |
| 10                            | ZSSQAM     | 25      | 12        | 19.73                |                       |                       | 20.5              | 3.5      |  |  |  |  |
| 10                            | ZSSQAM     | 25      | 25        | 19.84                |                       |                       |                   |          |  |  |  |  |
| 10                            | ZSSQAM     | 50      | 0         | 19.70                |                       |                       |                   |          |  |  |  |  |
| Channel                       |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
| Frequency 27765, 27710, 27735 |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
| Frequency (MHz)               |            |         |           |                      |                       |                       |                   |          |  |  |  |  |
| 5                             | QPSK       | 1       | 0         | 22.79                | 22.79                 | 22.79                 | 24                | 0        |  |  |  |  |
| 5                             | QPSK       | 1       | 12        | 23.47                | 23.44                 | 23.48                 |                   |          |  |  |  |  |
| 5                             | QPSK       | 1       | 24        | 23.17                | 23.28                 | 23.19                 |                   |          |  |  |  |  |
| 5                             | QPSK       | 12      | 0         | 23.37                | 23.30                 | 23.38                 |                   |          |  |  |  |  |
| 5                             | QPSK       | 12      | 7         | 23.27                | 23.13                 | 23.25                 |                   |          |  |  |  |  |
| 5                             | QPSK       | 12      | 13        | 23.10                | 23.10                 | 23.10                 |                   |          |  |  |  |  |
| 5                             | QPSK       | 25      | 0         | 23.32                | 23.23                 | 23.28                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 0       | 0         | 23.29                | 23.29                 | 23.17                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 1       | 12        | 23.30                | 23.32                 | 23.40                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 1       | 24        | 23.32                | 23.31                 | 23.40                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 12      | 7         | 23.29                | 23.09                 | 22.94                 | 23.5              | 0.5      |  |  |  |  |
| 5                             | ISQAM      | 12      | 13        | 22.89                | 22.89                 | 22.85                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 25      | 0         | 22.88                | 22.83                 | 22.90                 | 23.5              | 0.5      |  |  |  |  |
| 5                             | ISQAM      | 1       | 0         | 22.89                | 22.87                 | 22.90                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 1       | 12        | 23.22                | 23.15                 | 23.22                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 1       | 24        | 23.01                | 23.03                 | 23.08                 | 22.5              | 1.5      |  |  |  |  |
| 5                             | ISQAM      | 12      | 0         | 21.87                | 21.87                 | 21.78                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 12      | 7         | 22.07                | 21.94                 | 21.94                 | 20.5              | 3.5      |  |  |  |  |
| 5                             | ISQAM      | 12      | 13        | 21.82                | 21.93                 | 21.80                 |                   |          |  |  |  |  |
| 5                             | ISQAM      | 25      | 0         | 21.88                | 21.94                 | 21.97                 | 20.5              | 3.5      |  |  |  |  |
| 5                             | ZSSQAM     | 1       | 0         | 19.56                | 19.49                 | 19.55                 |                   |          |  |  |  |  |
| 5                             | ZSSQAM     | 1       | 12        | 19.57                | 19.57                 | 19.62                 | 20.5              | 3.5      |  |  |  |  |
| 5                             | ZSSQAM     | 1       | 24        | 19.84                | 19.86                 | 19.89                 |                   |          |  |  |  |  |
| 5                             | ZSSQAM     | 12      | 0         | 19.78                | 19.77                 | 19.78                 | 20.5              | 3.5      |  |  |  |  |
| 5                             | ZSSQAM     | 12      | 7         | 19.59                | 19.68                 | 19.63                 |                   |          |  |  |  |  |
| 5                             | ZSSQAM     | 12      | 13        | 19.81                | 19.86                 | 19.80                 | 20.5              | 3.5      |  |  |  |  |
| 5                             | ZSSQAM     | 25      | 0         | 19.59                | 19.61                 | 19.53                 |                   |          |  |  |  |  |

| Band 30_Ant 1       |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
|---------------------|------------|---------|-----------|---------------------------|---------------------------|---------------------------|----------------------|----------|--|--|--|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Level<br>Ch. / Free | Power Level<br>Ch. / Free | Power Level<br>Ch. / Free | Tuneup Int.<br>(dBm) | MPR (dB) |  |  |  |  |
| Channel             |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| 27710               |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| Frequency (MHz)     |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 1       | 0         | 22.20                     |                           |                           | 24                   | 0        |  |  |  |  |
| 10                  | QPSK       | 1       | 25        | 22.26                     |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 1       | 49        | 22.08                     |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 25      | 0         | 21.15                     |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 25      | 12        | 21.08                     |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 25      | 25        | 21.02                     |                           |                           |                      |          |  |  |  |  |
| 10                  | QPSK       | 50      | 0         | 21.11                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 1       | 0         | 21.30                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 1       | 25        | 21.37                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 1       | 49        | 21.26                     |                           |                           | 23                   | 1        |  |  |  |  |
| 10                  | ISQAM      | 25      | 0         | 20.25                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 25      | 12        | 20.19                     |                           |                           | 22                   | 2        |  |  |  |  |
| 10                  | ISQAM      | 25      | 25        | 20.29                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 50      | 0         | 20.19                     |                           |                           | 22                   | 2        |  |  |  |  |
| 10                  | ISQAM      | 1       | 0         | 20.80                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 1       | 25        | 20.47                     |                           |                           | 21                   | 3        |  |  |  |  |
| 10                  | ISQAM      | 1       | 49        | 20.32                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 25      | 0         | 19.23                     |                           |                           | 19                   | 5        |  |  |  |  |
| 10                  | ISQAM      | 25      | 12        | 19.29                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ISQAM      | 25      | 25        | 19.12                     |                           |                           | 19                   | 5        |  |  |  |  |
| 10                  | ISQAM      | 50      | 0         | 19.15                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ZSSQAM     | 1       | 0         | 17.21                     |                           |                           | 19                   | 5        |  |  |  |  |
| 10                  | ZSSQAM     | 1       | 25        | 17.20                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ZSSQAM     | 1       | 49        | 17.03                     |                           |                           | 19                   | 5        |  |  |  |  |
| 10                  | ZSSQAM     | 25      | 0         | 17.26                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ZSSQAM     | 25      | 12        | 17.23                     |                           |                           | 19                   | 5        |  |  |  |  |
| 10                  | ZSSQAM     | 25      | 25        | 17.18                     |                           |                           |                      |          |  |  |  |  |
| 10                  | ZSSQAM     | 50      | 0         | 17.18                     |                           |                           |                      |          |  |  |  |  |
| Channel             |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| 27685, 27710, 27735 |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| Frequency (MHz)     |            |         |           |                           |                           |                           |                      |          |  |  |  |  |
| 5                   | QPSK       | 1       | 0         | 22.08                     | 22.09                     | 22.13                     | 24                   | 0        |  |  |  |  |
| 5                   | QPSK       | 1       | 12        | 22.19                     | 22.18                     | 22.16                     |                      |          |  |  |  |  |
| 5                   | QPSK       | 1       | 24        | 22.02                     | 22.02                     | 22.04                     |                      |          |  |  |  |  |
| 5                   | QPSK       | 12      | 0         | 21.21                     | 21.18                     | 21.14                     |                      |          |  |  |  |  |
| 5                   | QPSK       | 12      | 7         | 21.09                     | 21.08                     | 21.13                     |                      |          |  |  |  |  |
| 5                   | QPSK       | 12      | 13        | 21.02                     | 21.09                     | 21.08                     |                      |          |  |  |  |  |
| 5                   | QPSK       | 25      | 0         | 21.08                     | 21.08                     | 21.11                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 0       | 0         | 21.24                     | 21.26                     | 21.16                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 1       | 12        | 21.39                     | 21.32                     | 21.27                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 1       | 24        | 21.14                     | 21.22                     | 21.20                     | 23                   | 2        |  |  |  |  |
| 5                   | ISQAM      | 12      | 0         | 20.17                     | 20.17                     | 20.13                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 12      | 13        | 20.15                     | 20.16                     | 20.07                     | 22                   | 2        |  |  |  |  |
| 5                   | ISQAM      | 25      | 0         | 20.11                     | 20.13                     | 20.08                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 25      | 0         | 20.15                     | 20.07                     | 20.10                     | 22                   | 2        |  |  |  |  |
| 5                   | ISQAM      | 1       | 0         | 20.34                     | 20.30                     | 20.33                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 1       | 12        | 20.44                     | 20.41                     | 20.44                     | 21                   | 3        |  |  |  |  |
| 5                   | ISQAM      | 1       | 24        | 20.26                     | 20.21                     | 20.20                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 12      | 0         | 19.11                     | 19.16                     | 19.14                     | 19                   | 5        |  |  |  |  |
| 5                   | ISQAM      | 12      | 7         | 19.14                     | 19.09                     | 19.14                     |                      |          |  |  |  |  |
| 5                   | ISQAM      | 12      | 13        | 19.07                     | 19.03                     | 19.06                     | 19                   | 5        |  |  |  |  |
| 5                   | ISQAM      | 25      | 0         | 19.07                     | 19.10                     | 19.12                     |                      |          |  |  |  |  |
| 5                   | ZSSQAM     | 1       | 0         | 17.20                     | 17.27                     | 17.23                     | 19                   | 5        |  |  |  |  |
| 5                   | ZSSQAM     | 1       | 12        | 17.20                     | 17.20                     | 17.23                     |                      |          |  |  |  |  |
| 5                   | ZSSQAM     | 1       | 24        | 17.09                     | 17.03                     | 17.10                     | 19                   | 5        |  |  |  |  |
| 5                   | ZSSQAM     | 12      | 0         | 17.17                     | 17.15                     | 17.19                     |                      |          |  |  |  |  |
| 5                   | ZSSQAM     | 12      | 7         | 17.11                     | 17.20                     | 17.18                     | 19                   | 5        |  |  |  |  |
| 5                   | ZSSQAM     | 12      | 13        | 17.06                     | 17.02                     | 17.18                     |                      |          |  |  |  |  |
| 5                   | ZSSQAM     | 25      | 0         | 17.06                     | 17.10                     | 17.09                     |                      |          |  |  |  |  |

| Band 66_Ant 0   |            |           |              |                            |                            |                             |                        |             |  |
|-----------------|------------|-----------|--------------|----------------------------|----------------------------|-----------------------------|------------------------|-------------|--|
| BW<br>[MHz]     | Modulation | RB<br>Spa | RB<br>Offset | Power<br>Low<br>Ch. / Free | Power<br>Mid<br>Ch. / Free | Power<br>High<br>Ch. / Free | Tuneup<br>int<br>[dBm] | MPR<br>[dB] |  |
| Channel         |            |           |              |                            |                            |                             |                        |             |  |
| Frequency (MHz) |            |           |              | 130072                     | 130022                     | 130072                      |                        |             |  |
| 20              | QPSK       | 1         | 0            | 22.80                      | 22.79                      | 22.84                       | 24                     | 0           |  |
| 20              | QPSK       | 1         | 48           | 22.71                      | 22.73                      | 22.67                       |                        |             |  |
| 20              | QPSK       | 1         | 96           | 22.71                      | 22.73                      | 22.67                       |                        |             |  |
| 20              | QPSK       | 50        | 24           | 22.70                      | 22.74                      | 22.80                       |                        |             |  |
| 20              | QPSK       | 50        | 50           | 22.70                      | 22.76                      | 22.78                       |                        |             |  |
| 20              | QPSK       | 100       | 0            | 22.74                      | 22.80                      | 22.78                       |                        |             |  |
| 20              | ISQAM      | 0         | 0            | 22.81                      | 22.72                      | 22.75                       |                        |             |  |
| 20              | ISQAM      | 1         | 48           | 22.80                      | 22.65                      | 22.63                       | 24                     | 0           |  |
| 20              | ISQAM      | 1         | 96           | 22.80                      | 22.65                      | 22.63                       |                        |             |  |
| 20              | ISQAM      | 50        | 0            | 21.83                      | 21.80                      | 21.89                       |                        |             |  |
| 20              | ISQAM      | 50        | 24           | 21.86                      | 21.88                      | 21.86                       |                        |             |  |
| 20              | ISQAM      | 50        | 50           | 21.86                      | 21.88                      | 21.86                       |                        |             |  |
| 20              | ISQAM      | 100       | 0            | 21.83                      | 21.87                      | 21.89                       |                        |             |  |
| 20              | ISQAM      | 1         | 0            | 21.81                      | 22.08                      | 22.05                       |                        |             |  |
| 20              | ISQAM      | 1         | 48           | 21.81                      | 22.08                      | 22.05                       |                        |             |  |
| 20              | ISQAM      | 1         | 96           | 21.81                      | 22.08                      | 22.05                       |                        |             |  |
| 20              | ISQAM      | 50        | 0            | 20.77                      | 20.83                      | 20.80                       |                        |             |  |
| 20              | ISQAM      | 50        | 24           | 20.78                      | 20.86                      | 20.83                       |                        |             |  |
| 20              | ISQAM      | 50        | 50           | 20.78                      | 20.86                      | 20.83                       |                        |             |  |
| 20              | ISQAM      | 100       | 0            | 20.78                      | 20.86                      | 20.83                       |                        |             |  |
| 20              | ISQAM      | 1         | 48           | 18.29                      | 18.33                      | 18.28                       | 20                     |             |  |
| 20              | ISQAM      | 1         | 96           | 18.32                      | 18.31                      | 18.40                       |                        |             |  |
| 20              | ISQAM      | 50        | 0            | 18.51                      | 18.52                      | 18.48                       |                        |             |  |
| 20              | ISQAM      | 50        | 24           | 18.59                      | 18.60                      | 18.58                       |                        |             |  |
| 20              | ISQAM      | 50        | 50           | 18.59                      | 18.60                      | 18.58                       |                        |             |  |
| 20              | ISQAM      | 100       | 0            | 18.58                      | 18.62                      | 18.59                       |                        |             |  |
| 20              | ISQAM      | 1         | 0            | 18.58                      | 18.62                      | 18.59                       |                        |             |  |
| Frequency (MHz) |            |           |              | 130047                     | 130022                     | 130047                      | Tuneup<br>int<br>[dBm] | MPR<br>[dB] |  |
| 15              | QPSK       | 1         | 37           | 22.71                      | 22.78                      | 22.78                       | 24                     | 0           |  |
| 15              | QPSK       | 1         | 74           | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 15              | QPSK       | 1         | 111          | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 15              | QPSK       | 36        | 20           | 22.58                      | 22.70                      | 22.68                       |                        |             |  |
| 15              | QPSK       | 36        | 56           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 15              | QPSK       | 36        | 92           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 15              | QPSK       | 36        | 128          | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 15              | ISQAM      | 1         | 0            | 22.76                      | 22.63                      | 22.71                       | 24                     | 0           |  |
| 15              | ISQAM      | 1         | 37           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 15              | ISQAM      | 1         | 74           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 15              | ISQAM      | 36        | 0            | 21.77                      | 21.72                      | 21.80                       |                        |             |  |
| 15              | ISQAM      | 36        | 36           | 21.83                      | 21.81                      | 21.85                       |                        |             |  |
| 15              | ISQAM      | 36        | 72           | 21.79                      | 21.78                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 36        | 108          | 21.77                      | 21.78                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 0            | 21.77                      | 21.78                      | 21.87                       | 23                     | 1           |  |
| 15              | ISQAM      | 75        | 37           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 74           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 111          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 148          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 185          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 75        | 222          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 15              | ISQAM      | 36        | 39           | 20.78                      | 20.79                      | 20.83                       | 22                     | 2           |  |
| 15              | ISQAM      | 36        | 75           | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 111          | 20.79                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 148          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 185          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 222          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 259          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 296          | 20.74                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 15              | ISQAM      | 36        | 333          | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 369          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 406          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 443          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 479          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 516          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 553          | 20.78                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 15              | ISQAM      | 36        | 589          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 626          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 663          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 700          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 737          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 15              | ISQAM      | 36        | 774          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| Frequency (MHz) |            |           |              | 130022                     | 130022                     | 130022                      | Tuneup<br>int<br>[dBm] | MPR<br>[dB] |  |
| 10              | QPSK       | 1         | 0            | 22.73                      | 22.72                      | 22.73                       | 24                     | 0           |  |
| 10              | QPSK       | 1         | 37           | 22.71                      | 22.78                      | 22.78                       |                        |             |  |
| 10              | QPSK       | 1         | 74           | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 10              | QPSK       | 1         | 111          | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 10              | QPSK       | 36        | 20           | 22.58                      | 22.70                      | 22.68                       |                        |             |  |
| 10              | QPSK       | 36        | 56           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 10              | QPSK       | 36        | 92           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 10              | ISQAM      | 1         | 0            | 22.73                      | 22.61                      | 22.68                       | 24                     | 0           |  |
| 10              | ISQAM      | 1         | 37           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 10              | ISQAM      | 1         | 74           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 10              | ISQAM      | 36        | 0            | 21.77                      | 21.72                      | 21.80                       |                        |             |  |
| 10              | ISQAM      | 36        | 36           | 21.83                      | 21.81                      | 21.85                       |                        |             |  |
| 10              | ISQAM      | 36        | 72           | 21.79                      | 21.78                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 36        | 108          | 21.77                      | 21.78                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 0            | 21.77                      | 21.78                      | 21.87                       | 23                     | 1           |  |
| 10              | ISQAM      | 75        | 37           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 74           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 111          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 148          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 185          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 222          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 36        | 39           | 20.78                      | 20.79                      | 20.83                       | 22                     | 2           |  |
| 10              | ISQAM      | 36        | 75           | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 111          | 20.79                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 148          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 185          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 222          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 259          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 296          | 20.74                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 10              | ISQAM      | 36        | 333          | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 369          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 406          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 443          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 479          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 516          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 553          | 20.78                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 10              | ISQAM      | 36        | 589          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 626          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 663          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 700          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 737          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 774          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| Frequency (MHz) |            |           |              | 130022                     | 130022                     | 130022                      | Tuneup<br>int<br>[dBm] | MPR<br>[dB] |  |
| 10              | QPSK       | 1         | 0            | 22.73                      | 22.72                      | 22.73                       | 24                     | 0           |  |
| 10              | QPSK       | 1         | 37           | 22.71                      | 22.78                      | 22.78                       |                        |             |  |
| 10              | QPSK       | 1         | 74           | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 10              | QPSK       | 1         | 111          | 22.68                      | 22.81                      | 22.84                       |                        |             |  |
| 10              | QPSK       | 36        | 20           | 22.58                      | 22.70                      | 22.68                       |                        |             |  |
| 10              | QPSK       | 36        | 56           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 10              | QPSK       | 36        | 92           | 22.63                      | 22.65                      | 22.68                       |                        |             |  |
| 10              | ISQAM      | 1         | 0            | 22.73                      | 22.61                      | 22.68                       | 24                     | 0           |  |
| 10              | ISQAM      | 1         | 37           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 10              | ISQAM      | 1         | 74           | 22.69                      | 22.53                      | 22.72                       |                        |             |  |
| 10              | ISQAM      | 36        | 0            | 21.77                      | 21.72                      | 21.80                       |                        |             |  |
| 10              | ISQAM      | 36        | 36           | 21.83                      | 21.81                      | 21.85                       |                        |             |  |
| 10              | ISQAM      | 36        | 72           | 21.79                      | 21.78                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 36        | 108          | 21.77                      | 21.78                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 0            | 21.77                      | 21.78                      | 21.87                       | 23                     | 1           |  |
| 10              | ISQAM      | 75        | 37           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 74           | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 111          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 148          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 185          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 75        | 222          | 21.81                      | 21.81                      | 21.87                       |                        |             |  |
| 10              | ISQAM      | 36        | 39           | 20.78                      | 20.79                      | 20.83                       | 22                     | 2           |  |
| 10              | ISQAM      | 36        | 75           | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 111          | 20.79                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 148          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 185          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 222          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 259          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 296          | 20.74                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 10              | ISQAM      | 36        | 333          | 20.74                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 369          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 406          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 443          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 479          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 516          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 553          | 20.78                      | 20.83                      | 20.83                       | 20                     | 4           |  |
| 10              | ISQAM      | 36        | 589          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 626          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 663          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 700          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 737          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| 10              | ISQAM      | 36        | 774          | 20.78                      | 20.83                      | 20.83                       |                        |             |  |
| Frequency (MHz) |            |           |              | 130022                     | 130022                     | 130022                      | Tuneup<br>int<br>[dBm] | MPR<br>[dB] |  |
| 14              | QPSK       | 1         | 0            | 22.72                      | 22.85                      | 22.80                       | 24                     | 0           |  |
| 14              | QPSK       | 1         | 6            | 22.63                      | 22.68                      | 22.65                       |                        |             |  |
| 14              | QPSK       | 1         | 12           | 22.63                      | 22.68                      | 22.65                       |                        |             |  |
| 14              | QPSK       | 3         | 0            | 22.62                      | 22.71                      | 22.75                       |                        |             |  |
| 14              | QPSK       | 3         | 6            | 22.68                      | 22.73                      | 22.75                       |                        |             |  |
| 14              | QPSK       | 3         | 12           | 22.68                      | 22.73                      | 22.75                       |                        |             |  |
| 14              | QPSK       | 3         | 18           | 22.68                      | 22.73                      | 22.75                       |                        |             |  |
| 14              | ISQAM      | 1         | 0            | 22.78                      | 22.61                      | 22.68                       | 24                     | 0           |  |
| 14              | ISQAM      | 1         | 6            | 22.74                      | 22.62                      | 22.70                       |                        |             |  |
| 14              | ISQAM      | 1         | 12           | 22.74                      | 22.62                      | 22.70                       |                        |             |  |
| 14              | ISQAM      | 3         | 0            | 22.72                      | 22.70                      | 22.81                       |                        |             |  |
| 14              | ISQAM      | 3         | 6            | 22.78                      | 22.79                      | 22.78                       |                        |             |  |
| 14              | ISQAM      | 3         | 12           | 22.83                      | 22.83                      | 22.80                       |                        |             |  |
| 14              | ISQAM      | 3         | 18           | 22.80                      | 22.79                      | 22.81                       |                        |             |  |
| 14              | ISQAM      | 1         | 0            | 21.80                      | 21.02                      | 21.84                       | 23                     | 1           |  |
| 14              | ISQAM      | 1         | 6            | 21.81                      | 21.02                      | 21.84                       |                        |             |  |
| 14              | ISQAM      | 1         | 12           | 21.81                      | 21.02                      | 21.84                       |                        |             |  |
| 14              | ISQAM      | 3         | 0            | 20.73                      | 20.73                      | 20.80                       |                        |             |  |
| 14              | ISQAM      | 3         | 6            | 20.80                      | 20.83                      | 20.80                       |                        |             |  |
| 14              | ISQAM      | 3         | 12           | 20.76                      | 20.84                      | 20.78                       |                        |             |  |
| 14              | ISQAM      | 3         | 18           | 20.76                      | 20.84                      | 20.78                       |                        |             |  |
| 14              | ISQAM      | 1         | 6            | 18.20                      | 18.21                      | 18.24                       | 22                     | 2           |  |
| 14              | ISQAM      | 1         | 12           | 18.20                      | 18.21                      | 18.24                       |                        |             |  |
| 14              | ISQAM      | 1         | 18           | 18.20                      | 18.21                      | 18.24                       |                        |             |  |
| 14              | ISQAM      | 3         | 6            | 18.48                      | 18.53                      |                             |                        |             |  |

| Band 71_Ant 0   |            |          |              |                               |                                  |                                |                          |             |  |  |  |  |
|-----------------|------------|----------|--------------|-------------------------------|----------------------------------|--------------------------------|--------------------------|-------------|--|--|--|--|
| BW<br>(MHz)     | Modulation | RB<br>BW | RB<br>Offset | Power<br>Low<br>Ch. 1 / Freq. | Power<br>Middle<br>Ch. 2 / Freq. | Power<br>High<br>Ch. 3 / Freq. | Tune-up<br>int.<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| Channel         |            |          |              |                               |                                  |                                |                          |             |  |  |  |  |
|                 |            |          |              | 133222                        | 133207                           | 133272                         |                          |             |  |  |  |  |
| Frequency (MHz) |            |          |              | 673                           | 660.5                            | 688                            |                          |             |  |  |  |  |
| 20              | QPSK       | 1        | 0            | 22.71                         | 22.72                            | 22.57                          | 24                       | 0           |  |  |  |  |
| 20              | QPSK       | 1        | 49           | 22.67                         | 22.71                            | 22.57                          |                          |             |  |  |  |  |
| 20              | QPSK       | 1        | 99           | 22.58                         | 22.84                            | 22.81                          |                          |             |  |  |  |  |
| 20              | QPSK       | 50       | 0            | 22.58                         | 22.73                            | 22.72                          |                          |             |  |  |  |  |
| 20              | QPSK       | 50       | 24           | 22.57                         | 22.63                            | 22.61                          | 24                       | 0           |  |  |  |  |
| 20              | QPSK       | 50       | 50           | 22.53                         | 22.57                            | 22.56                          |                          |             |  |  |  |  |
| 20              | QPSK       | 100      | 0            | 22.65                         | 22.71                            | 22.64                          |                          |             |  |  |  |  |
| 20              | HQAM       | 1        | 0            | 22.72                         | 22.72                            | 22.72                          |                          |             |  |  |  |  |
| 20              | HQAM       | 1        | 49           | 22.60                         | 22.71                            | 22.58                          | 24                       | 0           |  |  |  |  |
| 20              | HQAM       | 1        | 99           | 22.58                         | 22.84                            | 22.81                          |                          |             |  |  |  |  |
| 20              | HQAM       | 50       | 0            | 22.15                         | 22.22                            | 22.12                          |                          |             |  |  |  |  |
| 20              | HQAM       | 50       | 24           | 22.12                         | 22.15                            | 22.08                          |                          |             |  |  |  |  |
| 20              | HQAM       | 50       | 50           | 22.16                         | 22.17                            | 22.11                          | 23                       | 1           |  |  |  |  |
| 20              | HQAM       | 100      | 0            | 22.07                         | 22.09                            | 22.06                          |                          |             |  |  |  |  |
| 20              | HQAM       | 1        | 0            | 22.49                         | 22.50                            | 22.47                          |                          |             |  |  |  |  |
| 20              | HQAM       | 1        | 49           | 22.28                         | 22.34                            | 22.27                          |                          |             |  |  |  |  |
| 20              | HQAM       | 1        | 99           | 22.35                         | 22.41                            | 22.40                          | 23                       | 1           |  |  |  |  |
| 20              | HQAM       | 50       | 0            | 21.33                         | 21.35                            | 21.28                          |                          |             |  |  |  |  |
| 20              | HQAM       | 50       | 24           | 21.16                         | 21.22                            | 21.19                          |                          |             |  |  |  |  |
| 20              | HQAM       | 50       | 50           | 21.18                         | 21.20                            | 21.16                          |                          |             |  |  |  |  |
| 20              | HQAM       | 100      | 0            | 21.14                         | 21.17                            | 21.14                          | 22                       | 2           |  |  |  |  |
| 20              | SSBDM      | 1        | 0            | 19.49                         | 19.53                            | 19.52                          |                          |             |  |  |  |  |
| 20              | SSBDM      | 1        | 49           | 19.44                         | 19.45                            | 19.41                          |                          |             |  |  |  |  |
| 20              | SSBDM      | 1        | 99           | 19.34                         | 19.36                            | 19.31                          |                          |             |  |  |  |  |
| 20              | SSBDM      | 50       | 0            | 19.23                         | 19.29                            | 19.27                          | 20                       | 4           |  |  |  |  |
| 20              | SSBDM      | 50       | 24           | 19.19                         | 19.23                            | 19.19                          |                          |             |  |  |  |  |
| 20              | SSBDM      | 50       | 50           | 19.04                         | 19.06                            | 19.05                          |                          |             |  |  |  |  |
| 20              | SSBDM      | 100      | 0            | 19.24                         | 19.25                            | 19.18                          |                          |             |  |  |  |  |
| Channel         |            |          |              |                               |                                  |                                |                          |             |  |  |  |  |
| Frequency (MHz) |            |          |              | 668                           | 660.5                            | 663                            | Tune-up<br>int.<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| 15              | QPSK       | 1        | 0            | 22.61                         | 22.67                            | 22.48                          | 24                       | 0           |  |  |  |  |
| 15              | QPSK       | 1        | 37           | 22.66                         | 22.78                            | 22.61                          |                          |             |  |  |  |  |
| 15              | QPSK       | 1        | 74           | 22.47                         | 22.54                            | 22.54                          |                          |             |  |  |  |  |
| 15              | QPSK       | 36       | 0            | 22.58                         | 22.63                            | 22.61                          |                          |             |  |  |  |  |
| 15              | QPSK       | 36       | 20           | 22.48                         | 22.59                            | 22.54                          | 24                       | 0           |  |  |  |  |
| 15              | QPSK       | 36       | 39           | 22.41                         | 22.50                            | 22.47                          |                          |             |  |  |  |  |
| 15              | QPSK       | 75       | 0            | 22.58                         | 22.60                            | 22.55                          |                          |             |  |  |  |  |
| 15              | HQAM       | 1        | 0            | 22.74                         | 22.76                            | 22.67                          |                          |             |  |  |  |  |
| 15              | HQAM       | 1        | 37           | 22.60                         | 22.61                            | 22.63                          | 24                       | 0           |  |  |  |  |
| 15              | HQAM       | 1        | 74           | 22.52                         | 22.58                            | 22.49                          |                          |             |  |  |  |  |
| 15              | HQAM       | 36       | 0            | 22.12                         | 22.15                            | 22.03                          |                          |             |  |  |  |  |
| 15              | HQAM       | 36       | 20           | 22.03                         | 22.12                            | 22.03                          |                          |             |  |  |  |  |
| 15              | HQAM       | 36       | 39           | 22.12                         | 22.12                            | 22.07                          | 23                       | 1           |  |  |  |  |
| 15              | HQAM       | 75       | 0            | 21.95                         | 22.06                            | 22.04                          |                          |             |  |  |  |  |
| 15              | HQAM       | 1        | 0            | 22.40                         | 22.39                            | 22.37                          |                          |             |  |  |  |  |
| 15              | HQAM       | 1        | 37           | 22.23                         | 22.24                            | 22.21                          |                          |             |  |  |  |  |
| 15              | HQAM       | 1        | 74           | 22.35                         | 22.31                            | 22.31                          | 23                       | 1           |  |  |  |  |
| 15              | HQAM       | 36       | 0            | 21.29                         | 21.27                            | 21.26                          |                          |             |  |  |  |  |
| 15              | HQAM       | 36       | 20           | 21.12                         | 21.10                            | 21.15                          |                          |             |  |  |  |  |
| 15              | HQAM       | 36       | 39           | 21.12                         | 21.17                            | 21.11                          |                          |             |  |  |  |  |
| 15              | HQAM       | 75       | 0            | 21.07                         | 21.09                            | 21.02                          | 22                       | 2           |  |  |  |  |
| 15              | SSBDM      | 1        | 0            | 19.42                         | 19.42                            | 19.44                          |                          |             |  |  |  |  |
| 15              | SSBDM      | 1        | 37           | 19.35                         | 19.39                            | 19.33                          |                          |             |  |  |  |  |
| 15              | SSBDM      | 1        | 74           | 19.26                         | 19.24                            | 19.26                          |                          |             |  |  |  |  |
| 15              | SSBDM      | 36       | 0            | 19.15                         | 19.25                            | 19.21                          | 20                       | 4           |  |  |  |  |
| 15              | SSBDM      | 36       | 20           | 19.10                         | 19.17                            | 19.10                          |                          |             |  |  |  |  |
| 15              | SSBDM      | 36       | 39           | 18.98                         | 19.02                            | 18.98                          |                          |             |  |  |  |  |
| 15              | SSBDM      | 75       | 0            | 19.17                         | 19.13                            | 19.11                          |                          |             |  |  |  |  |
| Channel         |            |          |              |                               |                                  |                                |                          |             |  |  |  |  |
| Frequency (MHz) |            |          |              | 663                           | 660.5                            | 663                            | Tune-up<br>int.<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| 10              | QPSK       | 1        | 0            | 22.61                         | 22.63                            | 22.53                          | 24                       | 0           |  |  |  |  |
| 10              | QPSK       | 1        | 25           | 22.68                         | 22.74                            | 22.52                          |                          |             |  |  |  |  |
| 10              | QPSK       | 1        | 49           | 22.55                         | 22.65                            | 22.51                          |                          |             |  |  |  |  |
| 10              | QPSK       | 25       | 0            | 22.58                         | 22.64                            | 22.69                          |                          |             |  |  |  |  |
| 10              | QPSK       | 25       | 12           | 22.47                         | 22.57                            | 22.54                          | 24                       | 0           |  |  |  |  |
| 10              | QPSK       | 25       | 25           | 22.48                         | 22.53                            | 22.50                          |                          |             |  |  |  |  |
| 10              | QPSK       | 50       | 0            | 22.58                         | 22.59                            | 22.57                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 0            | 22.67                         | 22.76                            | 22.66                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 25           | 22.57                         | 22.69                            | 22.64                          | 24                       | 0           |  |  |  |  |
| 10              | HQAM       | 1        | 49           | 22.55                         | 22.60                            | 22.52                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 0            | 22.11                         | 22.17                            | 22.07                          |                          |             |  |  |  |  |
| 10              | HQAM       | 25       | 12           | 22.04                         | 22.11                            | 21.96                          |                          |             |  |  |  |  |
| 10              | HQAM       | 25       | 25           | 22.07                         | 22.10                            | 22.07                          | 23                       | 1           |  |  |  |  |
| 10              | HQAM       | 50       | 0            | 21.95                         | 22.06                            | 22.07                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 0            | 22.48                         | 22.45                            | 22.46                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 25           | 22.21                         | 22.27                            | 22.21                          |                          |             |  |  |  |  |
| 10              | HQAM       | 1        | 49           | 22.25                         | 22.32                            | 22.33                          | 22                       | 2           |  |  |  |  |
| 10              | HQAM       | 25       | 0            | 21.24                         | 21.23                            | 21.19                          |                          |             |  |  |  |  |
| 10              | HQAM       | 25       | 12           | 21.05                         | 21.11                            | 21.16                          |                          |             |  |  |  |  |
| 10              | HQAM       | 25       | 25           | 21.07                         | 21.13                            | 21.06                          |                          |             |  |  |  |  |
| 10              | HQAM       | 50       | 0            | 21.11                         | 21.13                            | 21.08                          | 20                       | 4           |  |  |  |  |
| 10              | SSBDM      | 1        | 0            | 19.40                         | 19.44                            | 19.41                          |                          |             |  |  |  |  |
| 10              | SSBDM      | 1        | 25           | 19.35                         | 19.41                            | 19.38                          |                          |             |  |  |  |  |
| 10              | SSBDM      | 1        | 49           | 19.25                         | 19.36                            | 19.26                          |                          |             |  |  |  |  |
| 10              | SSBDM      | 25       | 0            | 19.20                         | 19.21                            | 19.18                          | 20                       | 4           |  |  |  |  |
| 10              | SSBDM      | 25       | 12           | 19.09                         | 19.14                            | 19.11                          |                          |             |  |  |  |  |
| 10              | SSBDM      | 25       | 25           | 18.97                         | 19.04                            | 19.04                          |                          |             |  |  |  |  |
| 10              | SSBDM      | 50       | 0            | 19.15                         | 19.14                            | 19.13                          |                          |             |  |  |  |  |
| Channel         |            |          |              |                               |                                  |                                |                          |             |  |  |  |  |
| Frequency (MHz) |            |          |              | 665.5                         | 660.5                            | 665.5                          | Tune-up<br>int.<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| 5               | QPSK       | 1        | 0            | 22.67                         | 22.67                            | 22.49                          | 24                       | 0           |  |  |  |  |
| 5               | QPSK       | 1        | 12           | 22.67                         | 22.74                            | 22.52                          |                          |             |  |  |  |  |
| 5               | QPSK       | 1        | 24           | 22.51                         | 22.61                            | 22.55                          |                          |             |  |  |  |  |
| 5               | QPSK       | 12       | 0            | 22.60                         | 22.63                            | 22.65                          |                          |             |  |  |  |  |
| 5               | QPSK       | 12       | 7            | 22.46                         | 22.48                            | 22.54                          | 24                       | 0           |  |  |  |  |
| 5               | QPSK       | 12       | 13           | 22.50                         | 22.46                            | 22.45                          |                          |             |  |  |  |  |
| 5               | QPSK       | 25       | 0            | 22.61                         | 22.65                            | 22.61                          |                          |             |  |  |  |  |
| 5               | HQAM       | 1        | 0            | 22.72                         | 22.76                            | 22.72                          |                          |             |  |  |  |  |
| 5               | HQAM       | 1        | 12           | 22.61                         | 22.67                            | 22.62                          | 24                       | 0           |  |  |  |  |
| 5               | HQAM       | 1        | 24           | 22.48                         | 22.61                            | 22.61                          |                          |             |  |  |  |  |
| 5               | HQAM       | 19       | 0            | 22.11                         | 22.18                            | 22.04                          |                          |             |  |  |  |  |
| 5               | HQAM       | 12       | 7            | 22.02                         | 22.09                            | 22.04                          |                          |             |  |  |  |  |
| 5               | HQAM       | 12       | 13           | 22.11                         | 22.06                            | 22.06                          | 23                       | 1           |  |  |  |  |
| 5               | HQAM       | 25       | 0            | 21.95                         | 22.04                            | 22.06                          |                          |             |  |  |  |  |
| 5               | HQAM       | 1        | 0            | 22.44                         | 22.42                            | 22.44                          | 23                       | 1           |  |  |  |  |
| 5               | HQAM       | 1        | 12           | 22.27                         | 22.28                            | 22.28                          |                          |             |  |  |  |  |
| 5               | HQAM       | 1        | 24           | 22.33                         | 22.34                            | 22.34                          |                          |             |  |  |  |  |
| 5               | HQAM       | 12       | 6            | 21.26                         | 22.29                            | 21.23                          |                          |             |  |  |  |  |
| 5               | HQAM       | 12       | 13           | 21.15                         | 21.18                            | 21.15                          | 22                       | 2           |  |  |  |  |
| 5               | HQAM       | 25       | 0            | 21.06                         | 21.15                            | 21.07                          |                          |             |  |  |  |  |
| 5               | HQAM       | 25       | 0            | 21.02                         | 21.11                            | 21.06                          |                          |             |  |  |  |  |
| 5               | HQAM       | 25       | 12           | 21.04                         | 21.04                            | 21.04                          |                          |             |  |  |  |  |
| 5               | SSBDM      | 1        | 0            | 19.42                         | 19.42                            | 19.42                          | 20                       | 4           |  |  |  |  |
| 5               | SSBDM      | 1        | 12           | 19.33                         | 19.38                            | 19.32                          |                          |             |  |  |  |  |
| 5               | SSBDM      | 1        | 24           | 19.20                         | 19.29                            | 19.21                          |                          |             |  |  |  |  |
| 5               | SSBDM      | 12       | 7            | 19.15                         | 19.15                            | 19.15                          |                          |             |  |  |  |  |
| 5               | SSBDM      | 12       | 13           | 19.05                         | 19.15                            | 19.15                          |                          |             |  |  |  |  |

| Band 38_Ant 9   |            |         |           |                     |                      |                      |                     |          |      |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-up limit (dBm) | MPR (dB) |      |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |      |  |
| Frequency (MHz) |            |         |           | 37850               | 38000                | 38150                |                     |          |      |  |
| 20              | QPSK       | 1       | 0         | 23.04               | 23.14                | 23.01                | 24                  | 0        |      |  |
| 20              | QPSK       | 1       | 49        | 23.08               | 23.02                | 23.08                |                     |          |      |  |
| 20              | QPSK       | 1       | 99        | 23.18               | 23.21                | 22.97                |                     |          |      |  |
| 20              | QPSK       | 50      | 0         | 23.30               | 23.35                | 23.18                |                     |          |      |  |
| 20              | QPSK       | 50      | 24        | 23.28               | 23.32                | 23.12                | 24                  | 0        |      |  |
| 20              | QPSK       | 50      | 50        | 23.20               | 23.28                | 23.16                |                     |          |      |  |
| 20              | QPSK       | 100     | 0         | 23.30               | 23.32                | 23.23                |                     |          |      |  |
| 20              | 16QAM      | 1       | 0         | 23.05               | 23.13                | 22.71                |                     |          |      |  |
| 20              | 16QAM      | 1       | 49        | 22.75               | 22.76                | 22.51                | 24                  | 0        |      |  |
| 20              | 16QAM      | 1       | 99        | 23.19               | 23.09                | 23.17                |                     |          |      |  |
| 20              | 16QAM      | 50      | 0         | 22.75               | 22.96                | 22.86                |                     |          |      |  |
| 20              | 16QAM      | 50      | 24        | 23.11               | 22.96                | 23.02                |                     |          | 23.5 |  |
| 20              | 16QAM      | 50      | 50        | 23.09               | 23.06                | 22.95                | 23.5                | 0.5      |      |  |
| 20              | 16QAM      | 100     | 0         | 22.95               | 22.90                | 22.89                |                     |          |      |  |
| 20              | 64QAM      | 1       | 0         | 22.48               | 22.51                | 22.75                |                     |          |      |  |
| 20              | 64QAM      | 1       | 49        | 22.75               | 22.76                | 22.75                |                     |          |      |  |
| 20              | 64QAM      | 1       | 99        | 22.89               | 22.86                | 22.61                | 23.5                | 0.1      |      |  |
| 20              | 64QAM      | 50      | 0         | 21.78               | 21.92                | 21.89                |                     |          |      |  |
| 20              | 64QAM      | 50      | 24        | 22.09               | 21.95                | 21.93                |                     |          |      |  |
| 20              | 64QAM      | 50      | 50        | 22.08               | 22.09                | 21.99                |                     |          |      |  |
| 20              | 64QAM      | 100     | 0         | 21.95               | 22.03                | 21.93                | 20.5                | 3.5      |      |  |
| 20              | 256QAM     | 1       | 0         | 19.60               | 19.63                | 19.58                |                     |          |      |  |
| 20              | 256QAM     | 1       | 49        | 19.61               | 19.60                | 19.59                |                     |          |      |  |
| 20              | 256QAM     | 1       | 99        | 19.41               | 19.45                | 19.39                |                     |          |      |  |
| 20              | 256QAM     | 50      | 0         | 19.68               | 19.74                | 19.68                | 20.5                | 3.5      |      |  |
| 20              | 256QAM     | 50      | 24        | 19.62               | 19.67                | 19.63                |                     |          |      |  |
| 20              | 256QAM     | 50      | 50        | 19.62               | 19.63                | 19.62                |                     |          |      |  |
| 20              | 256QAM     | 100     | 0         | 19.68               | 19.74                | 19.72                |                     |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |      |  |
| Frequency (MHz) |            |         |           | 37825               | 38000                | 38175                | Turn-up limit (dBm) | MPR (dB) |      |  |
| 15              | QPSK       | 1       | 0         | 22.78               | 22.80                | 22.86                | 24                  | 0        |      |  |
| 15              | QPSK       | 1       | 37        | 23.29               | 23.35                | 22.89                |                     |          |      |  |
| 15              | QPSK       | 1       | 74        | 23.02               | 23.17                | 22.78                |                     |          |      |  |
| 15              | QPSK       | 36      | 0         | 23.25               | 23.34                | 23.10                |                     |          |      |  |
| 15              | QPSK       | 36      | 20        | 23.09               | 23.19                | 22.96                | 24                  | 0        |      |  |
| 15              | QPSK       | 36      | 36        | 23.02               | 23.17                | 23.15                |                     |          |      |  |
| 15              | QPSK       | 75      | 0         | 23.13               | 23.18                | 23.07                |                     |          |      |  |
| 15              | 16QAM      | 1       | 0         | 22.39               | 22.59                | 22.65                |                     |          |      |  |
| 15              | 16QAM      | 1       | 37        | 22.89               | 23.03                | 23.16                | 24                  | 0        |      |  |
| 15              | 16QAM      | 1       | 74        | 23.10               | 22.93                | 22.91                |                     |          |      |  |
| 15              | 16QAM      | 36      | 0         | 22.62               | 22.76                | 22.82                |                     |          |      |  |
| 15              | 16QAM      | 36      | 20        | 23.03               | 22.75                | 22.95                |                     |          | 23.5 |  |
| 15              | 16QAM      | 36      | 36        | 22.90               | 22.97                | 22.91                | 23.5                | 0.5      |      |  |
| 15              | 16QAM      | 75      | 0         | 22.93               | 22.71                | 22.74                |                     |          |      |  |
| 15              | 64QAM      | 1       | 0         | 22.95               | 22.95                | 22.95                |                     |          |      |  |
| 15              | 64QAM      | 1       | 37        | 22.63               | 22.73                | 22.51                |                     |          |      |  |
| 15              | 64QAM      | 1       | 74        | 22.51               | 22.75                | 22.55                | 22.5                | 1.5      |      |  |
| 15              | 64QAM      | 36      | 0         | 21.70               | 21.79                | 21.84                |                     |          |      |  |
| 15              | 64QAM      | 36      | 20        | 21.85               | 21.86                | 21.82                |                     |          |      |  |
| 15              | 64QAM      | 36      | 36        | 21.92               | 21.91                | 21.95                |                     |          |      |  |
| 15              | 64QAM      | 75      | 0         | 21.79               | 21.87                | 21.81                | 20.5                | 3.5      |      |  |
| 15              | 256QAM     | 1       | 0         | 19.38               | 19.43                | 19.39                |                     |          |      |  |
| 15              | 256QAM     | 1       | 37        | 19.38               | 19.43                | 19.38                |                     |          |      |  |
| 15              | 256QAM     | 1       | 74        | 19.35               | 19.42                | 19.32                |                     |          |      |  |
| 15              | 256QAM     | 36      | 0         | 19.65               | 19.62                | 19.58                | 20.5                | 3.5      |      |  |
| 15              | 256QAM     | 36      | 20        | 19.59               | 19.62                | 19.61                |                     |          |      |  |
| 15              | 256QAM     | 36      | 36        | 19.56               | 19.54                | 19.53                |                     |          |      |  |
| 15              | 256QAM     | 75      | 0         | 19.59               | 19.69                | 19.67                |                     |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |      |  |
| Frequency (MHz) |            |         |           | 37800               | 38000                | 38200                | Turn-up limit (dBm) | MPR (dB) |      |  |
| 10              | QPSK       | 1       | 0         | 23.05               | 23.05                | 23.03                | 24                  | 0        |      |  |
| 10              | QPSK       | 1       | 25        | 23.19               | 23.31                | 23.05                |                     |          |      |  |
| 10              | QPSK       | 1       | 49        | 23.03               | 23.09                | 22.91                |                     |          |      |  |
| 10              | QPSK       | 25      | 0         | 23.29               | 23.25                | 23.07                |                     |          |      |  |
| 10              | QPSK       | 25      | 12        | 23.26               | 23.27                | 23.03                | 24                  | 0        |      |  |
| 10              | QPSK       | 25      | 25        | 23.04               | 23.09                | 23.10                |                     |          |      |  |
| 10              | QPSK       | 50      | 0         | 23.19               | 23.22                | 23.17                |                     |          |      |  |
| 10              | 16QAM      | 1       | 0         | 23.03               | 23.02                | 22.63                |                     |          |      |  |
| 10              | 16QAM      | 1       | 25        | 22.95               | 23.10                | 23.01                | 24                  | 0        |      |  |
| 10              | 16QAM      | 1       | 49        | 23.06               | 22.91                | 22.95                |                     |          |      |  |
| 10              | 16QAM      | 25      | 0         | 22.73               | 22.87                | 22.81                |                     |          |      |  |
| 10              | 16QAM      | 25      | 12        | 23.09               | 22.79                | 22.91                |                     |          | 23.5 |  |
| 10              | 16QAM      | 25      | 25        | 22.95               | 22.94                | 22.91                | 23.5                | 0.5      |      |  |
| 10              | 16QAM      | 50      | 0         | 22.75               | 22.71                | 22.67                |                     |          |      |  |
| 10              | 64QAM      | 1       | 0         | 22.47               | 22.33                | 22.25                |                     |          |      |  |
| 10              | 64QAM      | 1       | 25        | 22.84               | 22.65                | 22.46                |                     |          | 23.5 |  |
| 10              | 64QAM      | 1       | 49        | 22.51               | 22.78                | 22.46                | 22.5                | 1.5      |      |  |
| 10              | 64QAM      | 25      | 0         | 21.65               | 21.86                | 21.84                |                     |          |      |  |
| 10              | 64QAM      | 25      | 12        | 22.06               | 21.84                | 21.75                |                     |          |      |  |
| 10              | 64QAM      | 25      | 25        | 21.92               | 22.03                | 21.93                |                     |          |      |  |
| 10              | 64QAM      | 50      | 0         | 21.84               | 22.01                | 21.82                | 20.5                | 3.5      |      |  |
| 10              | 256QAM     | 1       | 0         | 19.55               | 19.56                | 19.48                |                     |          |      |  |
| 10              | 256QAM     | 1       | 25        | 19.38               | 19.46                | 19.41                |                     |          |      |  |
| 10              | 256QAM     | 1       | 49        | 19.34               | 19.34                | 19.28                |                     |          |      |  |
| 10              | 256QAM     | 25      | 0         | 19.62               | 19.64                | 19.61                | 20.5                | 3.5      |      |  |
| 10              | 256QAM     | 25      | 12        | 19.55               | 19.62                | 19.56                |                     |          |      |  |
| 10              | 256QAM     | 25      | 25        | 19.56               | 19.60                | 19.58                |                     |          |      |  |
| 10              | 256QAM     | 50      | 0         | 19.56               | 19.66                | 19.69                |                     |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |      |  |
| Frequency (MHz) |            |         |           | 37775               | 38000                | 38225                | Turn-up limit (dBm) | MPR (dB) |      |  |
| 5               | QPSK       | 1       | 0         | 22.88               | 23.07                | 22.95                | 24                  | 0        |      |  |
| 5               | QPSK       | 1       | 12        | 23.34               | 23.37                | 22.98                |                     |          |      |  |
| 5               | QPSK       | 1       | 24        | 23.10               | 23.09                | 22.82                |                     |          |      |  |
| 5               | QPSK       | 12      | 0         | 23.13               | 23.24                | 23.17                |                     |          |      |  |
| 5               | QPSK       | 12      | 7         | 23.12               | 23.17                | 23.11                | 24                  | 0        |      |  |
| 5               | QPSK       | 12      | 13        | 23.19               | 23.25                | 23.06                |                     |          |      |  |
| 5               | QPSK       | 25      | 0         | 23.18               | 23.14                | 23.04                |                     |          |      |  |
| 5               | 16QAM      | 1       | 0         | 22.97               | 23.06                | 22.53                |                     |          |      |  |
| 5               | 16QAM      | 1       | 12        | 22.86               | 23.13                | 23.03                | 24                  | 0        |      |  |
| 5               | 16QAM      | 1       | 24        | 22.99               | 22.89                | 22.98                |                     |          |      |  |
| 5               | 16QAM      | 12      | 0         | 22.68               | 22.82                | 22.71                |                     |          |      |  |
| 5               | 16QAM      | 12      | 7         | 23.05               | 22.77                | 22.91                |                     |          | 23.5 |  |
| 5               | 16QAM      | 12      | 13        | 23.01               | 23.05                | 22.76                | 23.5                | 0.5      |      |  |
| 5               | 16QAM      | 25      | 0         | 22.77               | 22.82                | 22.80                |                     |          |      |  |
| 5               | 64QAM      | 1       | 0         | 22.33               | 22.48                | 22.64                |                     |          |      |  |
| 5               | 64QAM      | 1       | 12        | 22.56               | 22.70                | 22.39                |                     |          | 23.5 |  |
| 5               | 64QAM      | 1       | 24        | 22.57               | 22.72                | 22.50                | 22.5                | 1.5      |      |  |
| 5               | 64QAM      | 12      | 0         | 21.63               | 21.79                | 21.75                |                     |          |      |  |
| 5               | 64QAM      | 12      | 7         | 21.89               | 21.88                | 21.86                |                     |          |      |  |
| 5               | 64QAM      | 12      | 13        | 22.02               | 22.08                | 21.87                |                     |          |      |  |
| 5               | 64QAM      | 25      | 0         | 21.84               | 21.86                | 21.86                | 20.5                | 3.5      |      |  |
| 5               | 256QAM     | 1       | 0         | 19.49               | 19.56                | 19.54                |                     |          |      |  |
| 5               | 256QAM     | 12      | 0         | 19.40               | 19.43                | 19.40                | 20.5                | 3.5      |      |  |
| 5               | 256QAM     | 1       | 24        | 19.31               | 19.37                | 19.35                |                     |          |      |  |
| 5               | 256QAM     | 12      | 0         | 19.63               | 19.63                | 19.59                | 20.5                | 3.5      |      |  |
| 5               | 256QAM     | 12      | 7         | 19.50               | 19.61                | 19.59                |                     |          |      |  |
| 5               | 256QAM     | 12      | 13        | 19.55               | 19.58                | 19.57                | 20.5                | 3.5      |      |  |
| 5               | 256QAM     | 25      | 0         | 19.56               | 19.69                | 19.62                |                     |          |      |  |

| Band 41 (HPUE)_Ant 9 |            |         |           |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
|----------------------|------------|---------|-----------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------|---------------------|----------|--|--|--|--|
| BW (MHz)             | Modulation | RB Size | RB Offset | Freq Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Turn-up limit (dBm) | MPR (dB) |                     |          |  |  |  |  |
| Channel              |            |         |           |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39790              | 39750               | 25405               | 40185               | 40620               | 41055               | 41490               |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 0         | 25.07              | 25.07               | 25.97               | 26.26               | 26.88               | 26.43               | 27                  | 0        |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 48        | 25.11              | 25.11               | 26.15               | 26.26               | 26.18               | 26.52               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 99        | 25.04              | 25.00               | 26.09               | 26.20               | 26.91               | 26.48               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 0         | 25.05              | 25.04               | 26.11               | 26.20               | 26.88               | 26.54               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 24        | 25.01              | 25.00               | 26.09               | 26.10               | 26.88               | 26.53               | 27                  | 0        |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 50        | 25.05              | 25.03               | 26.01               | 26.11               | 25.99               | 26.45               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 100     | 0         | 25.06              | 25.06               | 26.17               | 26.28               | 26.07               | 26.51               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 25.00              | 25.04               | 26.20               | 26.47               | 26.20               | 26.47               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 48        | 25.06              | 25.08               | 26.15               | 26.80               | 26.42               | 26.54               | 27                  | 0        |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 25.08              | 25.07               | 26.23               | 26.01               | 26.25               | 26.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 25.28              | 25.23               | 26.55               | 26.78               | 25.90               | 25.97               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 25.41              | 25.35               | 25.72               | 25.79               | 25.98               | 25.98               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 25.42              | 25.36               | 25.71               | 25.86               | 25.96               | 25.95               | 26                  | 1        |                     |          |  |  |  |  |
| 20                   | 16QAM      | 100     | 0         | 25.39              | 25.33               | 25.89               | 26.08               | 25.88               | 25.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 25.33              | 25.29               | 25.73               | 25.76               | 25.74               | 25.88               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 1       | 48        | 25.46              | 25.48               | 25.75               | 25.81               | 25.68               | 25.80               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 1       | 99        | 25.05              | 25.47               | 25.82               | 25.93               | 25.69               | 25.98               | 25                  | 2        |                     |          |  |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 24.20              | 24.17               | 24.57               | 24.77               | 24.56               | 24.84               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 24.36              | 24.34               | 24.69               | 24.81               | 24.60               | 24.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 24.38              | 24.32               | 24.89               | 24.83               | 24.54               | 24.84               |                     |          |                     |          |  |  |  |  |
| 20                   | 64QAM      | 100     | 0         | 24.38              | 24.32               | 24.89               | 24.79               | 24.55               | 24.79               | 23                  | 4        |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 0         | 22.07              | 22.18               | 22.22               | 22.27               | 22.59               | 22.56               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 24        | 21.92              | 22.14               | 22.17               | 22.76               | 22.48               | 22.68               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 99        | 22.01              | 22.11               | 22.16               | 22.68               | 22.41               | 22.84               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 0         | 21.95              | 22.09               | 22.18               | 22.75               | 22.44               | 22.54               | 23                  | 4        |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 24        | 22.06              | 22.16               | 22.25               | 22.81               | 22.41               | 22.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 50        | 21.93              | 22.02               | 22.13               | 22.68               | 22.49               | 22.82               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 100     | 0         | 21.97              | 22.02               | 22.08               | 22.63               | 22.40               | 22.84               |                     |          |                     |          |  |  |  |  |
| Channel              |            |         |           |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39795              | 39725               | 40173               | 40620               | 41058               | 41515               | Turn-up limit (dBm) | MPR (dB) |                     |          |  |  |  |  |
| 15                   | QPSK       | 1       | 0         | 25.02              | 25.03               | 25.43               | 26.03               | 26.378              | 26.75               | 27                  | 0        |                     |          |  |  |  |  |
| 15                   | QPSK       | 1       | 37        | 25.08              | 25.02               | 26.04               | 26.05               | 26.16               | 26.46               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 1       | 74        | 25.47              | 25.51               | 26.01               | 26.04               | 25.78               | 26.43               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 0         | 25.02              | 25.53               | 26.01               | 26.12               | 25.97               | 26.40               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 20        | 25.44              | 25.58               | 26.17               | 25.96               | 25.82               | 26.47               | 27                  | 0        |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 39        | 25.46              | 25.52               | 25.99               | 25.99               | 25.85               | 26.42               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 75      | 0         | 25.06              | 25.70               | 25.89               | 26.08               | 25.95               | 26.39               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 75      | 19        | 25.48              | 25.79               | 25.98               | 26.08               | 25.85               | 26.45               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 26.22              | 26.00               | 26.32               | 26.50               | 26.35               | 26.35               | 27                  | 0        |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 25.90              | 26.00               | 26.07               | 26.47               | 26.07               | 26.50               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 25.21              | 25.00               | 25.46               | 25.61               | 25.45               | 25.46               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 25.25              | 25.76               | 25.95               | 26.05               | 25.82               | 26.47               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 25.29              | 25.18               | 25.51               | 25.73               | 25.42               | 25.48               | 26                  | 1        |                     |          |  |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 25.25              | 26.14               | 25.66               | 25.68               | 25.39               | 25.51               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 75      | 19        | 25.18              | 25.28               | 25.61               | 25.61               | 25.45               | 25.45               |                     |          |                     |          |  |  |  |  |
| 15                   | 64QAM      | 1       | 37        | 25.44              | 25.28               | 25.69               | 25.67               | 25.57               | 25.74               |                     |          |                     |          |  |  |  |  |
| 15                   | 64QAM      | 1       | 74        | 25.49              | 25.42               | 25.68               | 25.74               | 25.63               | 25.79               | 23                  | 1        |                     |          |  |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 24.00              | 24.98               | 24.37               | 24.76               | 24.42               | 24.55               |                     |          |                     |          |  |  |  |  |
| 15                   | 64QAM      | 36      | 20        | 24.02              | 24.98               | 24.37               | 24.76               | 24.42               | 24.55               |                     |          |                     |          |  |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 24.24              | 24.20               | 24.57               | 24.76               | 24.47               | 24.87               |                     |          |                     |          |  |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 24.29              | 24.15               | 24.67               | 24.76               | 24.47               | 24.70               | 23                  | 4        |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 0         | 22.01              | 22.04               | 22.21               | 22.67               | 22.30               | 22.82               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 37        | 21.96              | 22.02               | 22.10               | 22.67               | 22.29               | 22.82               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 74        | 21.83              | 22.05               | 22.13               | 22.62               | 22.33               | 22.51               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 0         | 21.78              | 22.07               | 22.06               | 22.71               | 22.35               | 22.50               | 23                  | 4        |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 20        | 22.04              | 22.04               | 22.06               | 22.46               | 22.25               | 22.84               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 39        | 21.83              | 21.94               | 22.01               | 22.66               | 22.29               | 22.47               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 75      | 0         | 21.77              | 21.89               | 21.88               | 22.51               | 22.23               | 22.44               |                     |          |                     |          |  |  |  |  |
| Channel              |            |         |           |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39790              | 39750               | 40185               | 40620               | 41080               | 41540               | Turn-up limit (dBm) | MPR (dB) |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 0         | 25.08              | 25.02               | 25.91               | 25.99               | 25.71               | 26.26               | 27                  | 0        |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 25        | 25.03              | 25.61               | 26.00               | 26.00               | 26.00               | 26.48               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 49        | 25.53              | 25.51               | 25.90               | 26.00               | 25.78               | 26.45               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 25      | 12        | 25.48              | 25.50               | 25.99               | 26.00               | 25.89               | 26.38               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 25      | 25        | 25.01              | 25.48               | 25.94               | 26.00               | 25.98               | 26.44               | 27                  | 0        |                     |          |  |  |  |  |
| 10                   | QPSK       | 50      | 0         | 25.76              | 25.75               | 26.06               | 26.16               | 26.06               | 26.33               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 74        | 25.81              | 25.74               | 26.05               | 26.37               | 26.26               | 26.31               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 25.19              | 25.88               | 26.31               | 26.44               | 26.40               | 26.48               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 25.03              | 25.84               | 26.12               | 26.07               | 26.17               | 26.41               | 27                  | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 99        | 25.01              | 25.13               | 25.72               | 25.72               | 25.72               | 26.45               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 25.32              | 25.25               | 25.97               | 25.97               | 25.99               | 25.92               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 25.26              | 25.28               | 25.96               | 25.76               | 25.44               | 25.92               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 25.38              | 26.00               | 25.61               | 25.62               | 25.44               | 25.97               | 26                  | 1        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 25.25              | 25.18               | 25.61               | 25.62               | 25.48               | 25.76               |                     |          |                     |          |  |  |  |  |
| 10                   | 64QAM      | 1       | 25        | 25.26              | 25.16               | 25.61               | 25.77               | 25.65               | 25.78               |                     |          |                     |          |  |  |  |  |
| 10                   | 64QAM      | 1       | 49        | 25.07              | 25.43               | 25.98               | 25.98               | 25.48               | 25.76               |                     |          |                     |          |  |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 24.08              | 24.03               | 24.56               | 24.66               | 24.39               | 24.59               | 25                  | 2        |                     |          |  |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 24.23              | 24.24               | 24.55               | 24.75               | 24.54               | 24.84               |                     |          |                     |          |  |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 24.26              | 24.24               | 24.53               | 24.80               | 24.59               | 24.78               |                     |          |                     |          |  |  |  |  |
| 10                   | 64QAM      | 50      | 24        | 24.32              | 24.22               | 24.65               | 24.75               | 24.43               | 24.72               |                     |          |                     |          |  |  |  |  |
| 10                   | 256QAM     | 1       | 0         | 21.96              | 22.04               | 22.06               | 22.61               | 22.54               | 22.40               | 23                  | 4        |                     |          |  |  |  |  |
| 10                   | 256QAM     | 1       | 25        | 21.84              | 22.01               | 22.09               | 22.66               | 22.30               | 22.54               |                     |          |                     |          |  |  |  |  |
| 10                   | 256QAM     | 1       | 49        | 21.90              | 21.95               | 22.02               | 22.68               | 22.32               | 22.47               |                     |          |                     |          |  |  |  |  |
| 10                   | 256QAM     | 36      | 0         | 21.80              | 21.99               | 22.13               | 22.65               | 22.20               | 22.44               |                     |          |                     |          |  |  |  |  |
| 10                   | 256QAM     | 25      | 12        | 22.03              | 22.12               | 21.96               | 22.44               | 22.29               | 22.56               | 23                  | 4        |                     |          |  |  |  |  |
| 10                   | 256QAM     | 25      | 25        | 21.89              | 22.02               | 22.02               | 22.84               | 22.43               | 22.32               |                     |          |                     |          |  |  |  |  |
| 10                   | 256QAM     | 75      | 0         | 21.83              | 21.93               | 21.78               | 22.32               | 22.29               | 22.44               |                     |          |                     |          |  |  |  |  |
| Channel              |            |         |           |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39795              | 39675               | 40148               | 40600               | 41053               | 41505               |                     |          | Turn-up limit (dBm) | MPR (dB) |  |  |  |  |
| 5                    | QPSK       | 1       | 0         | 25.05              | 25.04               | 25.45               | 25.93               | 26.240              | 26.67               | 27                  | 0        |                     |          |  |  |  |  |
| 5                    | QPSK       | 1       | 9         | 25.05              | 25.47               | 25.82               | 26.15               | 25.77               | 26.26               |                     |          |                     |          |  |  |  |  |
| 5                    | QPSK       | 1       | 18        | 25.03              | 25.45               | 25.86               | 26.17               | 25.69               | 26.28               |                     |          |                     |          |  |  |  |  |
| 5                    | QPSK       | 1       | 24        | 25.06              | 25.53               | 25.91               | 26.09               | 25.76               | 26.32               |                     |          |                     |          |  |  |  |  |
| 5                    | QPSK       | 12      | 7         | 25.48              | 25.57               | 25.93               | 26.12               | 25.89               | 26.37               | 27                  | 0        |                     |          |  |  |  |  |
| 5                    | QPSK       | 12      | 17        | 25.45              | 25.52               | 25.84               | 26.12               | 25.93               | 26.34               |                     |          |                     |          |  |  |  |  |
| 5                    | QPSK       | 25      | 0         | 25.09              | 25.50               | 25.83               | 26.00               | 25.77               | 26.31               |                     |          |                     |          |  |  |  |  |
| 5                    | QPSK       | 25      | 6         | 25.83              | 25.84               | 25.99               | 26.23               | 25.97               | 26.33               |                     |          |                     |          |  |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 25.74              | 25.90               | 26.15               | 26.35               | 26.09               | 26.44               | 27                  | 0        |                     |          |  |  |  |  |
| 5                    | 16QAM      | 1       | 9         | 25.77              | 25.98               | 26.18               | 26.48               | 26.24               | 26.49               |                     |          |                     |          |  |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 25.85              | 25.83               | 26.18               | 26.53               | 26.19               | 26.53               |                     |          |                     |          |  |  |  |  |
| 5                    | 16QAM      | 12      | 6         | 25.15              | 25.16               | 25.36               | 25.73               | 25.49               | 26.43               |                     |          |                     |          |  |  |  |  |
| 5                    | 16QAM      | 12      | 17        | 25.29              | 25.33               | 25.53               | 25.78               | 25.56               | 25.49               | 26                  | 1        |                     |          |  |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 25.02              | 25.15               | 25.30               | 25.68               | 25.40               | 25.49               |                     |          |                     |          |  |  |  |  |
| 5                    | 16QAM      | 25      | 6         | 25.20              | 25.22               | 25.56               | 25.74               | 25.46               | 25.56               |                     |          |                     |          |  |  |  |  |
| 5                    | 64QAM      | 1       | 0         | 25.16              | 25.10               | 25.56               | 25.94               | 25.71               | 25.70               |                     |          |                     |          |  |  |  |  |
| 5                    | 64QAM      | 1       | 9         | 25.29              | 25.33               | 25.53               | 25.78               | 25.56               | 25.49               | 26                  | 1        |                     |          |  |  |  |  |
| 5                    | 64QAM      | 1       | 24        | 25.40              | 25.34               | 25.75               | 25.90               | 25.61               | 25.74               |                     |          |                     |          |  |  |  |  |
| 5                    | 64QAM      | 12      | 7         | 24.15              | 24.01               | 24.41               | 24.62               | 24.36               | 24.45               |                     |          |                     |          |  |  |  |  |
| 5                    | 64QAM      | 12      | 17        | 24.23              | 24.25               | 24.53               | 24.67               | 24.42               | 24.74               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 0         | 22.02              | 22.13               | 22.15               | 22.61               | 22.24               | 22.77               | 23                  | 2        |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 9         | 22.07              | 22.18               | 22.22               | 22.27               | 22.59               | 22.56               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 24        | 21.92              | 22.14               | 22.17               | 22.76               | 22.48               | 22.68               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 99        | 22.01              | 22.11               | 22.16               | 22.68               | 22.41               | 22.84               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 12      | 7         | 22.03              | 22.14               | 21.89               | 22.47               | 22.34               | 22.44               | 23                  | 4        |                     |          |  |  |  |  |
| 5                    | 256QAM     | 12      | 17        | 21.78              | 22.02               | 22.10               | 22.67               | 22.29               | 22.82               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 25      | 0         | 21.84              | 21.99               | 22.04               | 22.61               | 22.24               | 22.44               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 25      | 6         | 22.06              | 22.05               | 22.09               | 22.80               | 22.55               | 22.58               |                     |          |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 12        | 21.71              | 22.08               | 22.13               | 22.63               | 22.33               | 22.80               | 23                  | 4        |                     |          |  |  |  |  |
| 5                    | 256QAM     | 1       | 24        |                    |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |

| Band 41_Ant 2 |                 |         |           |                             |                      |                          |                           |                       |                       |                     |          |  |
|---------------|-----------------|---------|-----------|-----------------------------|----------------------|--------------------------|---------------------------|-----------------------|-----------------------|---------------------|----------|--|
| BW (MHz)      | Modulation      | RB Size | RB Offset | Fat IC Power Low Ch./F/Freq | Power Low Ch./F/Freq | Power Low Mid Ch./F/Freq | Power Low High Ch./F/Freq | Power High Ch./F/Freq | Power High Ch./F/Freq | Turn-up limit (dBm) | MPR (dB) |  |
| Channel       |                 |         |           |                             |                      |                          |                           |                       |                       |                     |          |  |
|               | Frequency (MHz) |         |           | 39750                       | 39750                | 40185                    | 40620                     | 41055                 | 41490                 |                     |          |  |
| 20            | QPSK            | 1       | 0         | 2510                        | 2506                 | 2548.5                   | 2593                      | 2636.5                | 2680                  |                     |          |  |
| 20            | QPSK            | 1       | 49        | 2532                        | 2536                 | 2532                     | 2535                      | 2533                  | 2533                  |                     |          |  |
| 20            | QPSK            | 1       | 99        | 2538                        | 2535                 | 2537                     | 2547                      | 2527                  | 2533                  | 24                  | 0        |  |
| 20            | QPSK            | 50      | 0         | 2521                        | 2518                 | 2545                     | 2549                      | 2532                  | 2538                  |                     |          |  |
| 20            | QPSK            | 50      | 24        | 2532                        | 2531                 | 2543                     | 2545                      | 2537                  | 2534                  |                     |          |  |
| 20            | QPSK            | 50      | 50        | 2538                        | 2532                 | 2537                     | 2548                      | 2532                  | 2538                  |                     |          |  |
| 20            | 16QAM           | 1       | 0         | 2530                        | 2533                 | 2533                     | 2531                      | 2535                  | 2535                  |                     |          |  |
| 20            | 16QAM           | 1       | 49        | 2535                        | 2536                 | 2534                     | 2535                      | 2535                  | 2535                  |                     |          |  |
| 20            | 16QAM           | 1       | 99        | 2532                        | 2532                 | 2543                     | 2545                      | 2539                  | 2535                  | 24                  | 0        |  |
| 20            | 16QAM           | 50      | 0         | 2211                        | 2207                 | 2231                     | 2247                      | 2217                  | 2225                  |                     |          |  |
| 20            | 16QAM           | 50      | 24        | 2227                        | 2221                 | 2246                     | 2252                      | 2219                  | 2242                  |                     |          |  |
| 20            | 16QAM           | 50      | 50        | 2224                        | 2223                 | 2246                     | 2252                      | 2237                  | 2248                  |                     |          |  |
| 20            | 16QAM           | 100     | 0         | 2223                        | 2223                 | 2243                     | 2251                      | 2212                  | 2236                  | 23                  | 1        |  |
| 20            | 64QAM           | 1       | 0         | 2187                        | 2188                 | 2212                     | 2231                      | 2202                  | 2215                  |                     |          |  |
| 20            | 64QAM           | 1       | 49        | 2208                        | 2201                 | 2232                     | 2245                      | 2193                  | 2221                  |                     |          |  |
| 20            | 64QAM           | 1       | 99        | 2207                        | 2214                 | 2229                     | 2243                      | 2198                  | 2242                  |                     |          |  |
| 20            | 64QAM           | 50      | 0         | 2113                        | 2109                 | 2133                     | 2146                      | 2111                  | 2125                  |                     |          |  |
| 20            | 64QAM           | 50      | 24        | 2124                        | 2124                 | 2145                     | 2153                      | 2114                  | 2141                  |                     |          |  |
| 20            | 64QAM           | 50      | 50        | 2119                        | 2120                 | 2143                     | 2154                      | 2107                  | 2143                  |                     |          |  |
| 20            | 256QAM          | 100     | 0         | 2120                        | 2120                 | 2143                     | 2153                      | 2114                  | 2142                  |                     |          |  |
| 20            | 256QAM          | 1       | 0         | 1876                        | 1874                 | 1890                     | 1921                      | 1882                  | 1896                  |                     |          |  |
| 20            | 256QAM          | 1       | 49        | 1879                        | 1888                 | 1884                     | 1915                      | 1882                  | 1895                  |                     |          |  |
| 20            | 256QAM          | 1       | 99        | 1871                        | 1879                 | 1875                     | 1901                      | 1862                  | 1895                  |                     |          |  |
| 20            | 256QAM          | 50      | 0         | 1867                        | 1866                 | 1864                     | 1869                      | 1865                  | 1867                  |                     |          |  |
| 20            | 256QAM          | 50      | 24        | 1863                        | 1864                 | 1861                     | 1869                      | 1867                  | 1876                  |                     |          |  |
| 20            | 256QAM          | 50      | 50        | 1866                        | 1867                 | 1864                     | 1865                      | 1865                  | 1866                  |                     |          |  |
| 20            | 256QAM          | 100     | 0         | 1878                        | 1868                 | 1860                     | 1896                      | 1862                  | 1862                  |                     |          |  |
| Channel       |                 |         |           |                             |                      |                          |                           |                       |                       |                     |          |  |
|               | Frequency (MHz) |         |           | 39765                       | 39765                | 40173                    | 40620                     | 41068                 | 41515                 | Turn-up limit (dBm) | MPR (dB) |  |
| 15            | QPSK            | 1       | 0         | 2282                        | 2287                 | 2303                     | 2332                      | 2300                  | 2309                  |                     |          |  |
| 15            | QPSK            | 1       | 37        | 2295                        | 2294                 | 2325                     | 2334                      | 2299                  | 2333                  | 24                  | 0        |  |
| 15            | QPSK            | 1       | 74        | 2307                        | 2299                 | 2314                     | 2338                      | 2292                  | 2328                  |                     |          |  |
| 15            | QPSK            | 36      | 0         | 2306                        | 2312                 | 2341                     | 2340                      | 2334                  | 2318                  |                     |          |  |
| 15            | QPSK            | 36      | 36        | 2305                        | 2307                 | 2337                     | 2335                      | 2330                  | 2330                  |                     |          |  |
| 15            | QPSK            | 36      | 36        | 2295                        | 2300                 | 2314                     | 2338                      | 2294                  | 2312                  |                     |          |  |
| 15            | QPSK            | 75      | 0         | 2301                        | 2308                 | 2331                     | 2335                      | 2333                  | 2324                  |                     |          |  |
| 15            | 16QAM           | 1       | 0         | 2128                        | 2128                 | 2144                     | 2152                      | 2138                  | 2150                  |                     |          |  |
| 15            | 16QAM           | 1       | 37        | 2299                        | 2287                 | 2330                     | 2340                      | 2296                  | 2308                  | 24                  | 0        |  |
| 15            | 16QAM           | 1       | 74        | 2300                        | 2301                 | 2338                     | 2331                      | 2286                  | 2317                  |                     |          |  |
| 15            | 16QAM           | 36      | 0         | 2195                        | 2196                 | 2213                     | 2229                      | 2201                  | 2218                  |                     |          |  |
| 15            | 16QAM           | 36      | 36        | 2202                        | 2205                 | 2222                     | 2232                      | 2200                  | 2217                  |                     |          |  |
| 15            | 16QAM           | 36      | 36        | 2215                        | 2215                 | 2242                     | 2232                      | 2200                  | 2217                  |                     |          |  |
| 15            | 16QAM           | 75      | 0         | 2219                        | 2213                 | 2226                     | 2234                      | 2197                  | 2224                  |                     |          |  |
| 15            | 64QAM           | 1       | 0         | 2106                        | 2106                 | 2123                     | 2130                      | 2106                  | 2118                  |                     |          |  |
| 15            | 64QAM           | 1       | 37        | 2296                        | 2295                 | 2296                     | 2297                      | 2283                  | 2277                  |                     |          |  |
| 15            | 64QAM           | 1       | 74        | 2191                        | 2211                 | 2219                     | 2233                      | 2179                  | 2232                  |                     |          |  |
| 15            | 64QAM           | 36      | 0         | 2103                        | 2098                 | 2115                     | 2135                      | 2098                  | 2115                  |                     |          |  |
| 15            | 64QAM           | 36      | 36        | 2108                        | 2113                 | 2142                     | 2138                      | 2103                  | 2118                  |                     |          |  |
| 15            | 64QAM           | 36      | 36        | 2099                        | 2115                 | 2137                     | 2145                      | 2095                  | 2134                  |                     |          |  |
| 15            | 256QAM          | 75      | 0         | 2117                        | 2119                 | 2133                     | 2135                      | 2103                  | 2128                  |                     |          |  |
| 15            | 256QAM          | 1       | 0         | 1863                        | 1859                 | 1869                     | 1907                      | 1867                  | 1884                  |                     |          |  |
| 15            | 256QAM          | 1       | 37        | 1865                        | 1841                 | 1844                     | 1897                      | 1866                  | 1869                  |                     |          |  |
| 15            | 256QAM          | 1       | 74        | 1863                        | 1866                 | 1863                     | 1886                      | 1868                  | 1883                  |                     |          |  |
| 15            | 256QAM          | 36      | 0         | 1865                        | 1848                 | 1844                     | 1904                      | 1854                  | 1872                  |                     |          |  |
| 15            | 256QAM          | 36      | 36        | 1866                        | 1862                 | 1862                     | 1883                      | 1864                  | 1882                  |                     |          |  |
| 15            | 256QAM          | 36      | 36        | 1855                        | 1855                 | 1853                     | 1901                      | 1870                  | 1865                  |                     |          |  |
| 15            | 256QAM          | 75      | 0         | 1858                        | 1853                 | 1858                     | 1893                      | 1845                  | 1874                  |                     |          |  |
| Channel       |                 |         |           |                             |                      |                          |                           |                       |                       |                     |          |  |
|               | Frequency (MHz) |         |           | 39740                       | 39740                | 40160                    | 40620                     | 41080                 | 41540                 | Turn-up limit (dBm) | MPR (dB) |  |
| 10            | QPSK            | 1       | 0         | 2297                        | 2305                 | 2315                     | 2315                      | 2287                  | 2294                  |                     |          |  |
| 10            | QPSK            | 1       | 25        | 2308                        | 2301                 | 2330                     | 2333                      | 2293                  | 2320                  |                     |          |  |
| 10            | QPSK            | 1       | 49        | 2305                        | 2298                 | 2321                     | 2336                      | 2289                  | 2323                  |                     |          |  |
| 10            | QPSK            | 12      | 0         | 2308                        | 2317                 | 2342                     | 2339                      | 2303                  | 2335                  | 24                  | 0        |  |
| 10            | QPSK            | 12      | 13        | 2310                        | 2310                 | 2330                     | 2336                      | 2291                  | 2322                  |                     |          |  |
| 10            | QPSK            | 12      | 25        | 2298                        | 2307                 | 2328                     | 2338                      | 2298                  | 2325                  |                     |          |  |
| 10            | QPSK            | 50      | 0         | 2312                        | 2304                 | 2333                     | 2339                      | 2298                  | 2322                  |                     |          |  |
| 10            | 16QAM           | 1       | 0         | 2217                        | 2286                 | 2328                     | 2339                      | 2300                  | 2322                  |                     |          |  |
| 10            | 16QAM           | 1       | 25        | 2314                        | 2308                 | 2328                     | 2342                      | 2294                  | 2321                  |                     |          |  |
| 10            | 16QAM           | 1       | 49        | 2292                        | 2307                 | 2331                     | 2331                      | 2281                  | 2312                  |                     |          |  |
| 10            | 16QAM           | 12      | 0         | 2316                        | 2317                 | 2342                     | 2338                      | 2293                  | 2324                  |                     |          |  |
| 10            | 16QAM           | 12      | 7         | 2213                        | 2207                 | 2227                     | 2240                      | 2203                  | 2236                  |                     |          |  |
| 10            | 16QAM           | 12      | 13        | 2212                        | 2213                 | 2243                     | 2251                      | 2193                  | 2235                  |                     |          |  |
| 10            | 16QAM           | 50      | 0         | 2215                        | 2234                 | 2226                     | 2231                      | 2194                  | 2219                  |                     |          |  |
| 10            | 64QAM           | 1       | 0         | 2186                        | 2183                 | 2196                     | 2223                      | 2177                  | 2212                  |                     |          |  |
| 10            | 64QAM           | 1       | 25        | 2207                        | 2199                 | 2219                     | 2230                      | 2184                  | 2215                  |                     |          |  |
| 10            | 64QAM           | 1       | 49        | 2199                        | 2200                 | 2224                     | 2239                      | 2197                  | 2223                  |                     |          |  |
| 10            | 64QAM           | 12      | 0         | 2097                        | 2091                 | 2122                     | 2139                      | 2091                  | 2119                  |                     |          |  |
| 10            | 64QAM           | 25      | 12        | 2121                        | 2110                 | 2141                     | 2150                      | 2098                  | 2124                  |                     |          |  |
| 10            | 64QAM           | 25      | 25        | 2102                        | 2113                 | 2138                     | 2144                      | 2106                  | 2141                  |                     |          |  |
| 10            | 64QAM           | 50      | 0         | 2104                        | 2104                 | 2141                     | 2152                      | 2096                  | 2133                  |                     |          |  |
| 10            | 256QAM          | 1       | 0         | 1868                        | 1855                 | 1862                     | 1915                      | 1878                  | 1892                  |                     |          |  |
| 10            | 256QAM          | 1       | 25        | 1852                        | 1855                 | 1860                     | 1903                      | 1869                  | 1879                  |                     |          |  |
| 10            | 256QAM          | 1       | 49        | 1854                        | 1846                 | 1844                     | 1881                      | 1859                  | 1884                  |                     |          |  |
| 10            | 256QAM          | 12      | 0         | 1862                        | 1856                 | 1860                     | 1894                      | 1863                  | 1892                  |                     |          |  |
| 10            | 256QAM          | 25      | 12        | 1852                        | 1847                 | 1839                     | 1896                      | 1868                  | 1879                  |                     |          |  |
| 10            | 256QAM          | 25      | 25        | 1853                        | 1839                 | 1839                     | 1905                      | 1868                  | 1879                  |                     |          |  |
| 10            | 256QAM          | 50      | 0         | 1867                        | 1859                 | 1841                     | 1864                      | 1860                  | 1870                  |                     |          |  |
| Channel       |                 |         |           |                             |                      |                          |                           |                       |                       |                     |          |  |
|               | Frequency (MHz) |         |           | 39715                       | 39675                | 40161                    | 40620                     | 41093                 | 41555                 | Turn-up limit (dBm) | MPR (dB) |  |
| 5             | QPSK            | 1       | 0         | 2287                        | 2282                 | 2320                     | 2331                      | 2292                  | 2312                  |                     |          |  |
| 5             | QPSK            | 1       | 12        | 2302                        | 2305                 | 2331                     | 2349                      | 2293                  | 2328                  | 24                  | 0        |  |
| 5             | QPSK            | 1       | 24        | 2292                        | 2290                 | 2320                     | 2327                      | 2289                  | 2323                  |                     |          |  |
| 5             | QPSK            | 12      | 0         | 2313                        | 2305                 | 2336                     | 2341                      | 2307                  | 2318                  |                     |          |  |
| 5             | QPSK            | 12      | 7         | 2310                        | 2309                 | 2337                     | 2332                      | 2292                  | 2308                  |                     |          |  |
| 5             | QPSK            | 12      | 13        | 2297                        | 2298                 | 2323                     | 2330                      | 2286                  | 2318                  |                     |          |  |
| 5             | QPSK            | 26      | 0         | 2317                        | 2330                 | 2330                     | 2327                      | 2308                  | 2314                  |                     |          |  |
| 5             | 16QAM           | 1       | 0         | 2281                        | 2301                 | 2318                     | 2345                      | 2299                  | 2331                  |                     |          |  |
| 5             | 16QAM           | 1       | 12        | 2303                        | 2288                 | 2322                     | 2337                      | 2292                  | 2318                  |                     |          |  |
| 5             | 16QAM           | 1       | 24        | 2295                        | 2301                 | 2341                     | 2339                      | 2283                  | 2315                  |                     |          |  |
| 5             | 16QAM           | 12      | 0         | 2292                        | 2187                 | 2211                     | 2240                      | 2199                  | 2213                  |                     |          |  |
| 5             | 16QAM           | 12      | 7         | 2213                        | 2205                 | 2244                     | 2250                      | 2213                  | 2232                  |                     |          |  |
| 5             | 16QAM           | 12      | 13        | 2218                        | 2206                 | 2234                     | 2244                      | 2188                  | 2240                  |                     |          |  |
| 5             | 16QAM           | 26      | 0         | 2211                        | 2207                 | 2326                     | 2327                      | 2303                  | 2318                  |                     |          |  |
| 5             | 64QAM           | 1       | 0         | 2184                        | 2195                 | 2209                     | 2227                      | 2194                  | 2211                  |                     |          |  |
| 5             | 64QAM           | 1       | 12        | 2192                        | 2190                 | 2210                     | 2225                      | 2183                  | 2212                  |                     |          |  |
| 5             | 64QAM           | 1       | 24        | 2195                        | 2194                 | 2228                     | 2230                      | 2191                  | 2239                  |                     |          |  |
| 5             | 64QAM           | 12      | 0         | 2105                        | 2099                 | 2110                     | 2135                      | 2093                  | 2124                  |                     |          |  |
| 5             | 64QAM           | 12      | 7         | 2108                        | 2113                 | 2137                     | 2134                      | 2099                  | 2139                  |                     |          |  |
| 5             | 64QAM           | 12      | 13        | 2101                        | 2109                 | 2145                     | 2145                      | 2105                  | 2139                  |                     |          |  |
| 5             | 64QAM           | 26      | 0         | 2110                        | 2107                 | 2134                     | 2136                      | 2107                  | 2134                  |                     |          |  |
| 5             | 256QAM          | 1       | 0         | 1863                        | 1872                 | 1864                     | 1918                      | 1871                  | 1877                  |                     |          |  |
| 5             | 256QAM          | 1       | 12        | 1855                        | 1847                 | 1858                     | 1913                      | 1875                  | 1867                  |                     |          |  |
| 5             | 256QAM          | 1       | 24        | 1855                        | 1849                 | 1849                     | 1895                      | 1868                  | 1876                  |                     |          |  |
| 5             | 256QAM          | 12      | 0         | 1853                        | 1849                 | 1849                     | 1908                      | 1860                  | 1869                  |                     |          |  |
| 5             | 256QAM          | 12      | 7         | 1850                        | 1848                 | 1831                     | 1900                      | 1870                  | 1861                  |                     |          |  |
| 5             | 256QAM          | 12      | 13        | 1851                        | 1838                 | 1837                     | 1901                      | 1862                  | 1876                  |                     |          |  |

| Band 41 (HPUE)_Ant 6 |            |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |
|----------------------|------------|---------|-----------|---------------------|-----------------------|---------------------------|------------------------|------------------------|----------------------------|-------------------------|-------------------|-------------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | For FDD<br>Tx (MHz) | Power Low<br>Ch [FDD] | Power Low<br>Mid Ch [FDD] | Power Low<br>Hch [FDD] | Power High<br>Ch [FDD] | Power High<br>Mid Ch [FDD] | Power High<br>Hch [FDD] | Time-use<br>ratio | MFR<br>(dB) |  |
| Channel              |            |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |
|                      |            |         |           | Frequency (MHz)     | 20.15                 | 20.56                     | 20.99                  | 20.53                  | 20.93                      | 21.00                   |                   |             |  |
| 20                   | QPSK       | 1       | 0         | 24.25               | 24.36                 | 24.20                     | 24.51                  | 24.48                  | 24.43                      |                         |                   |             |  |
| 20                   | QPSK       | 1       | 49        | 23.33               | 23.48                 | 24.39                     | 24.65                  | 24.58                  | 24.58                      |                         | 26                | 0           |  |
| 20                   | QPSK       | 1       | 99        | 24.32               | 24.22                 | 24.37                     | 24.49                  | 24.38                  | 24.53                      |                         |                   |             |  |
| 20                   | QPSK       | 50      | 0         | 23.32               | 23.59                 | 23.64                     | 23.69                  | 23.60                  | 23.67                      |                         |                   |             |  |
| 20                   | QPSK       | 50      | 24        | 23.45               | 23.58                 | 23.45                     | 23.67                  | 23.48                  | 23.54                      |                         | 25                | 1           |  |
| 20                   | QPSK       | 100     | 0         | 23.54               | 23.51                 | 23.64                     | 23.68                  | 23.56                  | 23.59                      |                         |                   |             |  |
| 20                   | 16QAM      | 1       | 0         | 23.62               | 23.66                 | 23.50                     | 23.73                  | 23.63                  | 23.77                      |                         |                   |             |  |
| 20                   | 16QAM      | 1       | 49        | 23.79               | 23.89                 | 23.83                     | 23.89                  | 23.96                  | 23.98                      |                         | 25                | 1           |  |
| 20                   | 16QAM      | 1       | 99        | 24.12               | 24.13                 | 23.85                     | 23.58                  | 23.53                  | 24.02                      |                         |                   |             |  |
| 20                   | 16QAM      | 50      | 0         | 22.87               | 22.93                 | 22.60                     | 22.65                  | 22.57                  | 22.38                      |                         | 25                | 1           |  |
| 20                   | 16QAM      | 50      | 24        | 22.85               | 22.88                 | 22.78                     | 22.56                  | 22.55                  | 22.73                      |                         |                   |             |  |
| 20                   | 16QAM      | 50      | 50        | 22.91               | 22.86                 | 22.70                     | 22.68                  | 22.68                  | 22.81                      |                         | 24                | 2           |  |
| 20                   | 16QAM      | 100     | 0         | 22.98               | 22.92                 | 22.65                     | 22.56                  | 22.61                  | 22.98                      |                         |                   |             |  |
| 20                   | 64QAM      | 1       | 0         | 22.61               | 22.61                 | 22.60                     | 22.87                  | 22.61                  | 22.61                      |                         |                   |             |  |
| 20                   | 64QAM      | 1       | 49        | 22.79               | 22.86                 | 22.76                     | 22.77                  | 22.86                  | 22.76                      |                         | 24                | 2           |  |
| 20                   | 64QAM      | 1       | 99        | 22.57               | 22.43                 | 22.62                     | 23.04                  | 22.59                  | 22.73                      |                         |                   |             |  |
| 20                   | 64QAM      | 50      | 0         | 21.83               | 21.88                 | 21.63                     | 21.67                  | 21.56                  | 21.47                      |                         |                   |             |  |
| 20                   | 64QAM      | 50      | 24        | 21.70               | 21.85                 | 21.85                     | 21.83                  | 21.47                  | 21.71                      |                         |                   |             |  |
| 20                   | 64QAM      | 50      | 50        | 21.57               | 21.57                 | 21.78                     | 21.63                  | 21.67                  | 21.84                      |                         |                   |             |  |
| 20                   | 64QAM      | 100     | 0         | 21.66               | 21.60                 | 21.59                     | 21.62                  | 21.63                  | 21.63                      |                         | 21                | 5           |  |
| 20                   | 256QAM     | 1       | 0         | 19.23               | 19.20                 | 19.24                     | 19.42                  | 19.30                  | 19.31                      |                         |                   |             |  |
| 20                   | 256QAM     | 1       | 49        | 19.29               | 19.22                 | 19.31                     | 19.49                  | 19.40                  | 19.40                      |                         |                   |             |  |
| 20                   | 256QAM     | 1       | 99        | 19.24               | 19.20                 | 19.34                     | 19.43                  | 19.39                  | 19.37                      |                         |                   |             |  |
| 20                   | 256QAM     | 50      | 0         | 19.30               | 19.26                 | 19.25                     | 19.48                  | 19.35                  | 19.41                      |                         |                   |             |  |
| 20                   | 256QAM     | 50      | 24        | 19.32               | 19.23                 | 19.33                     | 19.46                  | 19.31                  | 19.41                      |                         |                   |             |  |
| 20                   | 256QAM     | 50      | 50        | 19.25               | 19.22                 | 19.34                     | 19.46                  | 19.35                  | 19.37                      |                         | 21                | 5           |  |
| 20                   | 256QAM     | 100     | 0         | 19.29               | 19.27                 | 19.33                     | 19.52                  | 19.40                  | 19.38                      |                         |                   |             |  |
| Channel              |            |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |
|                      |            |         |           | Frequency (MHz)     | 20.15                 | 20.53                     | 20.93                  | 20.53                  | 20.93                      | 21.00                   | Time-use<br>ratio | MFR<br>(dB) |  |
| 15                   | QPSK       | 1       | 0         | 24.19               | 24.27                 | 24.11                     | 24.42                  | 24.41                  | 24.36                      |                         |                   |             |  |
| 15                   | QPSK       | 1       | 37        | 24.27               | 24.40                 | 24.30                     | 24.34                  | 24.34                  | 24.52                      |                         | 26                | 0           |  |
| 15                   | QPSK       | 1       | 74        | 24.27               | 24.16                 | 24.33                     | 24.41                  | 24.48                  | 24.50                      |                         |                   |             |  |
| 15                   | QPSK       | 36      | 0         | 23.47               | 23.39                 | 23.37                     | 23.60                  | 23.47                  | 23.43                      |                         |                   |             |  |
| 15                   | QPSK       | 36      | 20        | 23.47               | 23.56                 | 23.52                     | 23.53                  | 23.56                  | 23.49                      |                         |                   |             |  |
| 15                   | QPSK       | 36      | 36        | 23.41               | 23.48                 | 23.53                     | 23.68                  | 23.41                  | 23.59                      |                         | 25                | 1           |  |
| 15                   | 16QAM      | 1       | 0         | 23.58               | 23.56                 | 23.41                     | 23.61                  | 23.58                  | 23.73                      |                         |                   |             |  |
| 15                   | 16QAM      | 1       | 37        | 23.59               | 23.78                 | 24.00                     | 23.65                  | 24.00                  | 23.58                      |                         | 25                | 1           |  |
| 15                   | 16QAM      | 1       | 74        | 24.26               | 24.39                 | 23.94                     | 23.89                  | 23.56                  | 24.06                      |                         |                   |             |  |
| 15                   | 16QAM      | 36      | 0         | 22.55               | 22.50                 | 22.57                     | 22.62                  | 22.45                  | 22.30                      |                         |                   |             |  |
| 15                   | 16QAM      | 36      | 20        | 22.56               | 22.63                 | 22.72                     | 22.65                  | 22.52                  | 22.67                      |                         | 24                | 2           |  |
| 15                   | 16QAM      | 36      | 36        | 22.50               | 22.63                 | 22.66                     | 22.65                  | 22.59                  | 22.60                      |                         |                   |             |  |
| 15                   | 16QAM      | 75      | 0         | 22.47               | 22.47                 | 22.53                     | 22.47                  | 22.57                  | 22.51                      |                         |                   |             |  |
| 15                   | 64QAM      | 1       | 0         | 22.73               | 22.73                 | 22.73                     | 22.73                  | 22.73                  | 22.73                      |                         | 24                | 2           |  |
| 15                   | 64QAM      | 1       | 37        | 22.73               | 22.77                 | 22.70                     | 22.73                  | 22.80                  | 22.76                      |                         | 24                | 2           |  |
| 15                   | 64QAM      | 1       | 74        | 22.48               | 22.31                 | 22.53                     | 22.53                  | 22.52                  | 22.62                      |                         |                   |             |  |
| 15                   | 64QAM      | 36      | 0         | 21.56               | 21.48                 | 21.52                     | 21.57                  | 21.47                  | 21.42                      |                         |                   |             |  |
| 15                   | 64QAM      | 36      | 20        | 21.60               | 21.43                 | 21.75                     | 21.58                  | 21.43                  | 21.65                      |                         |                   |             |  |
| 15                   | 64QAM      | 36      | 36        | 21.45               | 21.48                 | 21.67                     | 21.52                  | 21.56                  | 21.58                      |                         | 23                | 3           |  |
| 15                   | 64QAM      | 75      | 0         | 21.60               | 21.54                 | 21.48                     | 21.41                  | 21.56                  | 21.57                      |                         |                   |             |  |
| 15                   | 256QAM     | 1       | 0         | 19.15               | 19.16                 | 19.19                     | 19.39                  | 19.18                  | 19.20                      |                         |                   |             |  |
| 15                   | 256QAM     | 1       | 37        | 19.22               | 19.10                 | 19.23                     | 19.42                  | 19.33                  | 19.35                      |                         | 21                | 5           |  |
| 15                   | 256QAM     | 1       | 74        | 19.13               | 19.25                 | 19.22                     | 19.34                  | 19.27                  | 19.25                      |                         |                   |             |  |
| 15                   | 256QAM     | 36      | 0         | 19.20               | 19.22                 | 19.19                     | 19.41                  | 19.28                  | 19.38                      |                         |                   |             |  |
| 15                   | 256QAM     | 36      | 20        | 19.23               | 19.12                 | 19.25                     | 19.41                  | 19.24                  | 19.33                      |                         |                   |             |  |
| 15                   | 256QAM     | 36      | 36        | 19.22               | 19.14                 | 19.25                     | 19.35                  | 19.24                  | 19.28                      |                         | 21                | 5           |  |
| 15                   | 256QAM     | 75      | 0         | 19.19               | 19.19                 | 19.25                     | 19.47                  | 19.35                  | 19.24                      |                         |                   |             |  |
| Channel              |            |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |
|                      |            |         |           | Frequency (MHz)     | 30.15                 | 30.70                     | 40.10                  | 40.02                  | 41.00                      | 41.50                   | Time-use<br>ratio | MFR<br>(dB) |  |
| 10                   | QPSK       | 1       | 0         | 25.01               | 25.01                 | 25.47                     | 25.63                  | 25.98                  | 26.65                      |                         |                   |             |  |
| 10                   | QPSK       | 1       | 25        | 24.13               | 24.26                 | 24.17                     | 24.41                  | 24.42                  | 24.40                      |                         |                   |             |  |
| 10                   | QPSK       | 1       | 49        | 24.28               | 24.41                 | 24.39                     | 24.31                  | 24.31                  | 24.52                      |                         |                   |             |  |
| 10                   | QPSK       | 1       | 74        | 24.27               | 24.17                 | 24.28                     | 24.42                  | 24.51                  | 24.45                      |                         |                   |             |  |
| 10                   | QPSK       | 25      | 12        | 23.47               | 23.34                 | 23.38                     | 23.47                  | 23.47                  | 23.49                      |                         |                   |             |  |
| 10                   | QPSK       | 25      | 25        | 23.46               | 23.56                 | 23.58                     | 23.61                  | 23.53                  | 23.38                      |                         | 25                | 1           |  |
| 10                   | QPSK       | 50      | 0         | 23.41               | 23.39                 | 23.39                     | 23.62                  | 23.36                  | 23.63                      |                         |                   |             |  |
| 10                   | QPSK       | 50      | 0         | 23.49               | 23.48                 | 23.50                     | 23.52                  | 23.49                  | 23.48                      |                         |                   |             |  |
| 10                   | 16QAM      | 1       | 0         | 23.61               | 23.63                 | 23.43                     | 23.70                  | 23.57                  | 23.41                      |                         |                   |             |  |
| 10                   | 16QAM      | 1       | 25        | 23.59               | 23.63                 | 23.55                     | 23.51                  | 23.58                  | 23.59                      |                         |                   |             |  |
| 10                   | 16QAM      | 1       | 49        | 24.29               | 24.36                 | 23.91                     | 23.94                  | 23.54                  | 24.02                      |                         |                   |             |  |
| 10                   | 16QAM      | 25      | 0         | 22.60               | 22.46                 | 22.49                     | 22.59                  | 22.49                  | 22.26                      |                         |                   |             |  |
| 10                   | 16QAM      | 25      | 12        | 22.56               | 22.59                 | 22.67                     | 22.54                  | 22.43                  | 22.65                      |                         |                   |             |  |
| 10                   | 16QAM      | 25      | 25        | 22.52               | 22.62                 | 22.62                     | 22.60                  | 22.59                  | 22.76                      |                         | 24                | 2           |  |
| 10                   | 16QAM      | 50      | 0         | 22.55               | 22.50                 | 22.55                     | 22.54                  | 22.58                  | 22.45                      |                         |                   |             |  |
| 10                   | 64QAM      | 1       | 0         | 22.56               | 22.56                 | 22.56                     | 22.56                  | 22.56                  | 22.56                      |                         |                   |             |  |
| 10                   | 64QAM      | 1       | 25        | 22.68               | 22.76                 | 22.65                     | 22.72                  | 22.78                  | 22.20                      |                         | 24                | 2           |  |
| 10                   | 64QAM      | 1       | 49        | 22.51               | 22.34                 | 22.50                     | 22.59                  | 22.52                  | 22.68                      |                         |                   |             |  |
| 10                   | 64QAM      | 25      | 0         | 21.59               | 21.61                 | 21.58                     | 21.64                  | 21.49                  | 21.43                      |                         |                   |             |  |
| 10                   | 64QAM      | 25      | 12        | 21.59               | 21.49                 | 21.77                     | 21.59                  | 21.41                  | 21.60                      |                         |                   |             |  |
| 10                   | 64QAM      | 25      | 25        | 21.52               | 21.47                 | 21.75                     | 21.57                  | 21.62                  | 21.56                      |                         | 23                | 3           |  |
| 10                   | 64QAM      | 50      | 0         | 21.63               | 21.63                 | 21.51                     | 21.49                  | 21.57                  | 21.69                      |                         |                   |             |  |
| 10                   | 256QAM     | 1       | 0         | 19.13               | 19.11                 | 19.20                     | 19.33                  | 19.18                  | 19.21                      |                         |                   |             |  |
| 10                   | 256QAM     | 1       | 25        | 19.26               | 19.13                 | 19.26                     | 19.44                  | 19.33                  | 19.32                      |                         | 21                | 5           |  |
| 10                   | 256QAM     | 1       | 49        | 19.18               | 19.17                 | 19.31                     | 19.36                  | 19.39                  | 19.27                      |                         |                   |             |  |
| 10                   | 256QAM     | 25      | 0         | 19.25               | 19.23                 | 19.20                     | 19.40                  | 19.23                  | 19.30                      |                         |                   |             |  |
| 10                   | 256QAM     | 25      | 12        | 19.25               | 19.14                 | 19.21                     | 19.35                  | 19.22                  | 19.38                      |                         |                   |             |  |
| 10                   | 256QAM     | 25      | 25        | 19.14               | 19.13                 | 19.28                     | 19.38                  | 19.31                  | 19.33                      |                         |                   |             |  |
| 10                   | 256QAM     | 50      | 0         | 19.20               | 19.15                 | 19.21                     | 19.44                  | 19.35                  | 19.30                      |                         | 21                | 5           |  |
| Channel              |            |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |
|                      |            |         |           | Frequency (MHz)     | 30.15                 | 30.75                     | 40.14                  | 40.02                  | 41.03                      | 41.55                   | Time-use<br>ratio | MFR<br>(dB) |  |
| 5                    | QPSK       | 1       | 0         | 24.17               | 24.33                 | 24.17                     | 24.39                  | 24.39                  | 24.35                      |                         |                   |             |  |
| 5                    | QPSK       | 1       | 12        | 24.25               | 24.40                 | 24.32                     | 24.40                  | 24.31                  | 24.50                      |                         |                   |             |  |
| 5                    | QPSK       | 1       | 24        | 24.24               | 24.15                 | 24.30                     | 24.37                  | 24.46                  | 24.47                      |                         |                   |             |  |
| 5                    | QPSK       | 12      | 0         | 23.44               | 23.41                 | 23.38                     | 23.60                  | 23.41                  | 23.43                      |                         |                   |             |  |
| 5                    | QPSK       | 12      | 12        | 23.43               | 23.51                 | 23.53                     | 23.67                  | 23.49                  | 23.42                      |                         | 25                | 1           |  |
| 5                    | QPSK       | 12      | 24        | 23.40               | 23.50                 | 23.51                     | 23.69                  | 23.42                  | 23.58                      |                         |                   |             |  |
| 5                    | QPSK       | 25      | 0         | 23.44               | 23.39                 | 23.57                     | 23.68                  | 23.48                  | 23.54                      |                         |                   |             |  |
| 5                    | QPSK       | 25      | 12        | 23.50               | 23.58                 | 23.59                     | 23.62                  | 23.60                  | 23.65                      |                         |                   |             |  |
| 5                    | QPSK       | 25      | 24        | 23.47               | 23.59                 | 23.59                     | 23.66                  | 23.41                  | 23.63                      |                         |                   |             |  |
| 5                    | 16QAM      | 1       | 0         | 23.60               | 23.64                 | 23.49                     | 23.80                  | 23.69                  | 23.48                      |                         |                   |             |  |
| 5                    | 16QAM      | 1       | 24        | 23.60               | 23.64                 | 23.89                     | 23.86                  | 23.93                  | 24.08                      |                         |                   |             |  |
| 5                    | 16QAM      | 12      | 0         | 22.61               | 22.49                 | 22.50                     | 22.62                  | 22.46                  | 22.32                      |                         |                   |             |  |
| 5                    | 16QAM      | 12      | 12        | 22.57               | 22.65                 | 22.73                     | 22.69                  | 22.44                  | 22.68                      |                         | 24                | 2           |  |
| 5                    | 16QAM      | 12      | 24        | 22.57               | 22.60                 | 22.68                     | 22.64                  | 22.58                  | 22.73                      |                         |                   |             |  |
| 5                    | 16QAM      | 25      | 0         | 22.53               | 22.50                 | 22.55                     | 22.53                  | 22.58                  | 22.45                      |                         |                   |             |  |
| 5                    | 16QAM      | 25      | 12        | 22.53               | 22.49                 | 22.57                     | 22.77                  | 22.47                  | 22.65                      |                         |                   |             |  |
| 5                    | 16QAM      | 25      | 24        | 22.78               | 22.76                 | 22.73                     | 22.73                  | 22.60                  | 22.76                      |                         | 24                | 2           |  |
| 5                    | 16QAM      | 1       | 24        | 22.51               | 22.52                 | 22.54                     | 23.01                  | 22.48                  | 22.67                      |                         |                   |             |  |
| 5                    | 64QAM      | 12      | 0         | 21.51               | 21.51                 | 21.62                     | 21.61                  | 21.49                  | 21.39                      |                         |                   |             |  |
| 5                    | 64QAM      | 12      | 12        | 21.62               | 21.45                 | 21.62                     | 21.57                  | 21.39                  | 21.67                      |                         | 23                | 3           |  |
| 5                    | 64QAM      | 12      | 24        | 21.46               | 21.49                 | 21.70                     | 21.53                  | 21.42                  | 21.56                      |                         |                   |             |  |
| 5                    | 64QAM      | 25      | 0         | 21.62               | 21.56                 | 21.54                     | 21.43                  | 21.53                  | 21.62                      |                         |                   |             |  |
| 5                    | 256QAM     | 1       | 0         | 19.19               | 19.15                 | 19.20                     | 19.34                  | 19.19                  | 19.20                      |                         |                   |             |  |
| 5                    | 256QAM     | 1       | 12        | 19.16               | 19.15                 | 19.24                     | 19.43                  | 19.28                  | 19.33                      |                         | 21                | 5           |  |
| 5                    | 256QAM     |         |           |                     |                       |                           |                        |                        |                            |                         |                   |             |  |

| Band 48_Ant 10  |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
|-----------------|------------|------------|--------------|-----------------------------|-------------------------------------|------------------------------|--------------------------------------|---------------------------|-------------|--|--|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Mask<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Power<br>High<br>Mask<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| Frequency (MHz) |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| 20              | QPSK       | 1          | 0            | 56340                       | 56830                               | 56150                        | 56640                                | 24                        | 0           |  |  |
| 20              | QPSK       | 1          | 48           | 22.82                       | 22.90                               | 22.54                        | 22.81                                |                           |             |  |  |
| 20              | QPSK       | 1          | 96           | 22.79                       | 22.88                               | 22.80                        | 22.87                                |                           |             |  |  |
| 20              | QPSK       | 50         | 0            | 22.76                       | 22.88                               | 22.72                        | 22.67                                |                           |             |  |  |
| 20              | QPSK       | 50         | 24           | 22.73                       | 22.80                               | 22.69                        | 22.78                                | 24                        | 0           |  |  |
| 20              | QPSK       | 50         | 50           | 22.75                       | 22.83                               | 22.63                        | 22.77                                |                           |             |  |  |
| 20              | QPSK       | 100        | 0            | 22.74                       | 22.78                               | 22.68                        | 22.77                                |                           |             |  |  |
| 20              | QPSK       | 1          | 0            | 22.69                       | 22.78                               | 22.58                        | 22.61                                |                           |             |  |  |
| 20              | 16QAM      | 1          | 48           | 22.71                       | 22.76                               | 22.69                        | 22.79                                | 24                        | 0           |  |  |
| 20              | 16QAM      | 1          | 96           | 22.68                       | 22.76                               | 22.68                        | 22.75                                |                           |             |  |  |
| 20              | 16QAM      | 50         | 0            | 22.33                       | 22.42                               | 22.35                        | 22.40                                |                           |             |  |  |
| 20              | 16QAM      | 50         | 24           | 22.46                       | 22.55                               | 22.44                        | 22.52                                |                           |             |  |  |
| 20              | 16QAM      | 50         | 50           | 22.46                       | 22.53                               | 22.41                        | 22.52                                | 23.5                      | 0.5         |  |  |
| 20              | 16QAM      | 100        | 0            | 22.47                       | 22.49                               | 22.40                        | 22.51                                |                           |             |  |  |
| 20              | 64QAM      | 1          | 0            | 22.35                       | 22.39                               | 22.36                        | 22.40                                |                           |             |  |  |
| 20              | 64QAM      | 1          | 48           | 22.40                       | 22.50                               | 22.36                        | 22.42                                |                           |             |  |  |
| 20              | 64QAM      | 1          | 96           | 22.24                       | 22.31                               | 22.25                        | 22.33                                | 22.5                      | 1.5         |  |  |
| 20              | 64QAM      | 50         | 0            | 21.37                       | 21.49                               | 21.29                        | 21.46                                |                           |             |  |  |
| 20              | 64QAM      | 50         | 24           | 21.42                       | 21.46                               | 21.36                        | 21.45                                |                           |             |  |  |
| 20              | 64QAM      | 50         | 50           | 21.45                       | 21.56                               | 21.41                        | 21.52                                |                           |             |  |  |
| 20              | 64QAM      | 100        | 0            | 21.45                       | 21.53                               | 21.36                        | 21.47                                | 20.5                      | 3.5         |  |  |
| 20              | 256QAM     | 1          | 0            | 19.26                       | 19.31                               | 19.27                        | 19.38                                |                           |             |  |  |
| 20              | 256QAM     | 1          | 48           | 19.35                       | 19.39                               | 19.33                        | 19.37                                |                           |             |  |  |
| 20              | 256QAM     | 1          | 96           | 19.43                       | 19.49                               | 19.31                        | 19.51                                |                           |             |  |  |
| 20              | 256QAM     | 50         | 0            | 19.38                       | 19.41                               | 19.34                        | 19.47                                | 20.5                      | 3.5         |  |  |
| 20              | 256QAM     | 50         | 24           | 19.48                       | 19.58                               | 19.49                        | 19.56                                |                           |             |  |  |
| 20              | 256QAM     | 50         | 50           | 19.51                       | 19.62                               | 19.42                        | 19.55                                |                           |             |  |  |
| 20              | 256QAM     | 100        | 0            | 19.33                       | 19.42                               | 19.32                        | 19.39                                |                           |             |  |  |
| Channel         |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| Frequency (MHz) |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| 15              | QPSK       | 1          | 0            | 55315                       | 55820                               | 56160                        | 56665                                | 24                        | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 22.76                       | 22.78                               | 22.75                        | 22.80                                |                           |             |  |  |
| 15              | QPSK       | 1          | 74           | 22.73                       | 22.79                               | 22.68                        | 22.81                                |                           |             |  |  |
| 15              | QPSK       | 36         | 0            | 22.72                       | 22.85                               | 22.70                        | 22.79                                |                           |             |  |  |
| 15              | QPSK       | 36         | 20           | 22.68                       | 22.70                               | 22.64                        | 22.74                                | 24                        | 0           |  |  |
| 15              | QPSK       | 36         | 39           | 22.71                       | 22.78                               | 22.61                        | 22.68                                |                           |             |  |  |
| 15              | QPSK       | 75         | 0            | 22.63                       | 22.69                               | 22.62                        | 22.65                                |                           |             |  |  |
| 15              | 16QAM      | 1          | 0            | 22.64                       | 22.67                               | 22.53                        | 22.73                                |                           |             |  |  |
| 15              | 16QAM      | 1          | 37           | 22.62                       | 22.71                               | 22.61                        | 22.73                                | 24                        | 0           |  |  |
| 15              | 16QAM      | 1          | 74           | 22.64                       | 22.69                               | 22.61                        | 22.68                                |                           |             |  |  |
| 15              | 16QAM      | 36         | 0            | 22.28                       | 22.33                               | 22.23                        | 22.34                                |                           |             |  |  |
| 15              | 16QAM      | 36         | 20           | 22.40                       | 22.50                               | 22.30                        | 22.44                                |                           |             |  |  |
| 15              | 16QAM      | 36         | 39           | 22.44                       | 22.50                               | 22.25                        | 22.44                                | 23.5                      | 0.5         |  |  |
| 15              | 16QAM      | 75         | 0            | 22.38                       | 22.37                               | 22.30                        | 22.42                                |                           |             |  |  |
| 15              | 64QAM      | 1          | 0            | 22.36                       | 22.38                               | 22.33                        | 22.35                                |                           |             |  |  |
| 15              | 64QAM      | 1          | 37           | 22.35                       | 22.38                               | 22.33                        | 22.32                                |                           |             |  |  |
| 15              | 64QAM      | 1          | 74           | 22.16                       | 22.20                               | 22.19                        | 22.28                                | 22.5                      | 1.5         |  |  |
| 15              | 64QAM      | 36         | 0            | 21.34                       | 21.40                               | 21.20                        | 21.42                                |                           |             |  |  |
| 15              | 64QAM      | 36         | 20           | 21.40                       | 21.44                               | 21.30                        | 21.38                                |                           |             |  |  |
| 15              | 64QAM      | 36         | 39           | 21.42                       | 21.45                               | 21.34                        | 21.45                                |                           |             |  |  |
| 15              | 64QAM      | 75         | 0            | 21.37                       | 21.50                               | 21.26                        | 21.43                                | 20.5                      | 3.5         |  |  |
| 15              | 256QAM     | 1          | 0            | 19.14                       | 19.29                               | 19.16                        | 19.28                                |                           |             |  |  |
| 15              | 256QAM     | 1          | 37           | 19.28                       | 19.34                               | 19.18                        | 19.30                                |                           |             |  |  |
| 15              | 256QAM     | 1          | 74           | 19.35                       | 19.47                               | 19.21                        | 19.46                                |                           |             |  |  |
| 15              | 256QAM     | 36         | 0            | 19.30                       | 19.33                               | 19.22                        | 19.41                                | 20.5                      | 3.5         |  |  |
| 15              | 256QAM     | 36         | 20           | 19.37                       | 19.46                               | 19.42                        | 19.53                                |                           |             |  |  |
| 15              | 256QAM     | 36         | 39           | 19.49                       | 19.60                               | 19.39                        | 19.43                                |                           |             |  |  |
| 15              | 256QAM     | 75         | 0            | 19.27                       | 19.36                               | 19.29                        | 19.27                                |                           |             |  |  |
| Channel         |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| Frequency (MHz) |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| 10              | QPSK       | 1          | 0            | 55290                       | 55815                               | 56165                        | 56665                                | 24                        | 0           |  |  |
| 10              | QPSK       | 1          | 25           | 22.74                       | 22.86                               | 22.42                        | 22.59                                |                           |             |  |  |
| 10              | QPSK       | 1          | 49           | 22.73                       | 22.83                               | 22.79                        | 22.87                                |                           |             |  |  |
| 10              | QPSK       | 25         | 0            | 22.76                       | 22.78                               | 22.69                        | 22.75                                |                           |             |  |  |
| 10              | QPSK       | 25         | 12           | 22.65                       | 22.73                               | 22.81                        | 22.60                                | 24                        | 0           |  |  |
| 10              | QPSK       | 25         | 25           | 22.65                       | 22.78                               | 22.58                        | 22.74                                |                           |             |  |  |
| 10              | QPSK       | 50         | 0            | 22.63                       | 22.72                               | 22.72                        | 22.75                                |                           |             |  |  |
| 10              | QPSK       | 50         | 0            | 22.68                       | 22.73                               | 22.62                        | 22.68                                |                           |             |  |  |
| 10              | 16QAM      | 1          | 0            | 22.61                       | 22.68                               | 22.52                        | 22.73                                | 24                        | 0           |  |  |
| 10              | 16QAM      | 1          | 25           | 22.59                       | 22.65                               | 22.62                        | 22.70                                |                           |             |  |  |
| 10              | 16QAM      | 1          | 49           | 22.60                       | 22.74                               | 22.61                        | 22.71                                |                           |             |  |  |
| 10              | 16QAM      | 25         | 0            | 22.72                       | 22.40                               | 22.24                        | 22.33                                |                           |             |  |  |
| 10              | 16QAM      | 25         | 12           | 22.44                       | 22.43                               | 22.38                        | 22.44                                | 23.5                      | 0.5         |  |  |
| 10              | 16QAM      | 25         | 25           | 22.43                       | 22.47                               | 22.29                        | 22.52                                |                           |             |  |  |
| 10              | 16QAM      | 50         | 0            | 22.35                       | 22.46                               | 22.37                        | 22.39                                |                           |             |  |  |
| 10              | 64QAM      | 1          | 0            | 22.23                       | 22.34                               | 22.30                        | 22.31                                |                           |             |  |  |
| 10              | 64QAM      | 1          | 25           | 22.31                       | 22.44                               | 22.28                        | 22.38                                | 23.5                      | 0.5         |  |  |
| 10              | 64QAM      | 1          | 49           | 22.12                       | 22.21                               | 22.13                        | 22.26                                |                           |             |  |  |
| 10              | 64QAM      | 25         | 0            | 21.33                       | 21.41                               | 21.17                        | 21.41                                |                           |             |  |  |
| 10              | 64QAM      | 25         | 12           | 21.37                       | 21.41                               | 21.32                        | 21.42                                |                           |             |  |  |
| 10              | 64QAM      | 25         | 25           | 21.36                       | 21.48                               | 21.36                        | 21.45                                | 22.5                      | 1.5         |  |  |
| 10              | 64QAM      | 50         | 0            | 21.38                       | 21.50                               | 21.28                        | 21.44                                |                           |             |  |  |
| 10              | 256QAM     | 1          | 0            | 19.18                       | 19.21                               | 19.17                        | 19.32                                |                           |             |  |  |
| 10              | 256QAM     | 1          | 25           | 19.31                       | 19.28                               | 19.20                        | 19.25                                |                           |             |  |  |
| 10              | 256QAM     | 1          | 49           | 19.40                       | 19.44                               | 19.29                        | 19.41                                | 20.5                      | 3.5         |  |  |
| 10              | 256QAM     | 25         | 0            | 19.33                       | 19.29                               | 19.23                        | 19.45                                |                           |             |  |  |
| 10              | 256QAM     | 25         | 12           | 19.38                       | 19.47                               | 19.40                        | 19.48                                |                           |             |  |  |
| 10              | 256QAM     | 25         | 25           | 19.47                       | 19.51                               | 19.39                        | 19.47                                |                           |             |  |  |
| 10              | 256QAM     | 50         | 0            | 19.24                       | 19.32                               | 19.29                        | 19.29                                |                           |             |  |  |
| Channel         |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| Frequency (MHz) |            |            |              |                             |                                     |                              |                                      |                           |             |  |  |
| 5               | QPSK       | 1          | 0            | 3052.5                      | 3061.5                              | 3043                         | 3057.5                               | 24                        | 0           |  |  |
| 5               | QPSK       | 1          | 12           | 22.79                       | 22.84                               | 22.46                        | 22.59                                |                           |             |  |  |
| 5               | QPSK       | 1          | 24           | 22.76                       | 22.83                               | 22.83                        | 22.77                                |                           |             |  |  |
| 5               | QPSK       | 12         | 0            | 22.74                       | 22.83                               | 22.70                        | 22.79                                |                           |             |  |  |
| 5               | QPSK       | 12         | 7            | 22.66                       | 22.75                               | 22.66                        | 22.71                                | 24                        | 0           |  |  |
| 5               | QPSK       | 12         | 13           | 22.65                       | 22.72                               | 22.57                        | 22.69                                |                           |             |  |  |
| 5               | QPSK       | 25         | 0            | 22.69                       | 22.71                               | 22.56                        | 22.68                                |                           |             |  |  |
| 5               | 16QAM      | 1          | 0            | 22.61                       | 22.67                               | 22.54                        | 22.70                                |                           |             |  |  |
| 5               | 16QAM      | 1          | 12           | 22.62                       | 22.73                               | 22.63                        | 22.68                                | 24                        | 0           |  |  |
| 5               | 16QAM      | 1          | 24           | 22.63                       | 22.73                               | 22.63                        | 22.69                                |                           |             |  |  |
| 5               | 16QAM      | 12         | 0            | 22.23                       | 22.40                               | 22.32                        | 22.32                                |                           |             |  |  |
| 5               | 16QAM      | 12         | 7            | 22.46                       | 22.44                               | 22.38                        | 22.46                                |                           |             |  |  |
| 5               | 16QAM      | 12         | 13           | 22.38                       | 22.41                               | 22.38                        | 22.50                                | 23.5                      | 0.5         |  |  |
| 5               | 16QAM      | 25         | 0            | 22.39                       | 22.40                               | 22.29                        | 22.49                                |                           |             |  |  |
| 5               | 64QAM      | 1          | 0            | 22.25                       | 22.29                               | 22.31                        | 22.35                                |                           |             |  |  |
| 5               | 64QAM      | 1          | 12           | 22.28                       | 22.46                               | 22.24                        | 22.39                                |                           |             |  |  |
| 5               | 64QAM      | 1          | 24           | 22.13                       | 22.23                               | 22.20                        | 22.26                                | 23.5                      | 0.5         |  |  |
| 5               | 64QAM      | 12         | 0            | 21.31                       | 21.43                               | 21.17                        | 21.43                                |                           |             |  |  |
| 5               | 64QAM      | 12         | 7            | 21.40                       | 21.42                               | 21.28                        | 21.35                                |                           |             |  |  |
| 5               | 64QAM      | 12         | 13           | 21.39                       | 21.50                               | 21.34                        | 21.45                                |                           |             |  |  |
| 5               | 64QAM      | 25         | 0            | 21.36                       | 21.50                               | 21.29                        | 21.41                                | 22.5                      | 1.5         |  |  |
| 5               | 256QAM     | 1          | 0            | 19.16                       | 19.22                               | 19.23                        | 19.31                                |                           |             |  |  |
| 5               | 256QAM     | 1          | 12           | 19.26                       | 19.34                               | 19.20                        | 19.34                                |                           |             |  |  |
| 5               | 256QAM     | 1          | 24           | 19.31                       | 19.43                               | 19.27                        | 19.49                                |                           |             |  |  |
| 5               | 256QAM     | 12         | 0            | 19.30                       | 19.31                               | 19.26                        | 19.42                                | 20.5                      | 3.5         |  |  |
| 5               | 256QAM     | 12         | 7            | 19.46                       | 19.56                               | 19.37                        | 19.49                                |                           |             |  |  |
| 5               | 256QAM     | 12         | 13           | 19.49                       | 19.54                               | 19.39                        | 19.48                                |                           |             |  |  |
| 5               | 256QAM     | 25         | 0            | 19.31                       | 19.31                               | 19.20                        | 19.28                                |                           |             |  |  |

| Band 48_Ant 8   |            |            |              |                             |                                     |                              |                                      |                           |             |
|-----------------|------------|------------|--------------|-----------------------------|-------------------------------------|------------------------------|--------------------------------------|---------------------------|-------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Mask<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Power<br>High<br>Mask<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |            |              |                             |                                     |                              |                                      |                           |             |
| Frequency [MHz] |            |            |              |                             |                                     |                              |                                      |                           |             |
| 20              | QPSK       | 1          | 0            | 56340                       | 56830                               | 56150                        | 56640                                | 24                        | 0           |
| 20              | QPSK       | 1          | 48           | 23.38                       | 22.90                               | 22.91                        | 22.90                                |                           |             |
| 20              | QPSK       | 1          | 96           | 23.43                       | 23.02                               | 23.02                        | 23.02                                |                           |             |
| 20              | QPSK       | 50         | 0            | 23.62                       | 22.16                               | 22.20                        | 22.15                                |                           |             |



### Reduced Power Mode for DS12

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       | Tune-up | Frame-Average Power (dBm) |       |       | Tune-up |
|-----------------|---------------------------|-------|-------|---------|---------------------------|-------|-------|---------|
| TX Channel      | 128                       | 189   | 251   | Limit   | 128                       | 189   | 251   | Limit   |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 | 22.92   | 824.2                     | 836.4 | 848.8 | 22.92   |
| GSM 1 Tx slot   | 31.90                     | 31.88 | 32.27 | 33.50   | 22.90                     | 22.68 | 23.27 | 24.50   |
| GPRS 1 Tx slot  | 31.88                     | 31.65 | 32.24 | 33.50   | 22.88                     | 22.65 | 23.24 | 24.50   |
| GPRS 2 Tx slots | 29.03                     | 29.37 | 29.58 | 30.50   | 23.03                     | 23.37 | 23.58 | 24.50   |
| GPRS 3 Tx slots | 27.82                     | 27.93 | 27.92 | 28.80   | 23.56                     | 23.67 | 23.68 | 24.54   |
| GPRS 4 Tx slots | 26.23                     | 26.41 | 26.43 | 27.50   | 23.23                     | 23.41 | 23.43 | 24.50   |
| EDGE 1 Tx slot  | 25.13                     | 25.25 | 25.56 | 26.50   | 16.13                     | 16.25 | 16.56 | 19.50   |
| EDGE 2 Tx slots | 24.25                     | 24.33 | 24.55 | 25.50   | 18.25                     | 18.33 | 18.55 | 19.50   |
| EDGE 3 Tx slots | 22.51                     | 22.31 | 22.72 | 23.50   | 18.25                     | 18.05 | 18.46 | 19.24   |
| EDGE 4 Tx slots | 20.51                     | 20.45 | 20.69 | 21.50   | 17.51                     | 17.45 | 17.69 | 18.50   |

| Band            | WCDMA II_Ant 0          |        |       |        | Tune-up Limit (dBm) | WCDMA II_Ant 1 |       |        |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|-------|--------|---------------------|----------------|-------|--------|-------|---------------------|
|                 | TX Channel              | 9262   | 9400  | 9538   |                     | 9262           | 9400  | 9538   |       |                     |
| Rx Channel      |                         | 9662   | 9800  | 9938   |                     | 9662           | 9800  | 9938   |       |                     |
| Frequency (MHz) |                         | 1852.4 | 1880  | 1907.6 |                     | 1852.4         | 1880  | 1907.6 |       |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.72  | 22.74 | 22.70  | 24.00               | 16.75          | 16.85 | 16.71  | 18.50 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.74  | 22.75 | 22.72  | 24.00               | 16.78          | 16.86 | 16.75  | 18.50 |                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.71  | 21.60 | 21.72  | 23.00               | 15.80          | 15.93 | 15.83  | 17.50 |                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.73  | 21.61 | 21.71  | 23.00               | 15.85          | 15.85 | 15.81  | 17.50 |                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 21.18  | 21.14 | 21.19  | 22.50               | 15.39          | 15.53 | 15.40  | 17.00 |                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 21.22  | 21.11 | 20.93  | 22.50               | 15.34          | 15.49 | 15.35  | 17.00 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.70  | 21.49 | 21.64  | 23.00               | 15.75          | 15.79 | 15.81  | 17.50 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.55  | 21.55 | 21.65  | 23.00               | 15.86          | 15.81 | 15.79  | 17.50 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 21.07  | 20.97 | 21.15  | 22.50               | 15.31          | 15.28 | 15.33  | 17.00 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 21.09  | 20.93 | 20.90  | 22.50               | 15.23          | 15.26 | 15.23  | 17.00 |                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.73  | 21.62 | 21.80  | 23.00               | 15.93          | 15.87 | 15.91  | 17.50 |                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.79  | 19.67 | 19.88  | 21.00               | 14.03          | 13.97 | 13.91  | 15.50 |                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.78  | 20.61 | 20.82  | 22.00               | 14.99          | 14.92 | 14.97  | 16.50 |                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.77  | 19.71 | 19.76  | 21.00               | 13.97          | 13.97 | 13.92  | 15.50 |                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.80  | 21.60 | 21.80  | 23.00               | 15.90          | 15.80 | 15.86  | 17.50 |                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.57  | 20.54 | 20.62  | 21.50               | 14.15          | 14.31 | 14.21  | 16.00 |                     |

| Band        | WCDMA V_Ant 0           |       |       |       |                     | WCDMA V_Ant 1 |       |       |                     |  |
|-------------|-------------------------|-------|-------|-------|---------------------|---------------|-------|-------|---------------------|--|
|             | TX Channel              | 4132  | 4182  | 4233  | Tune-up Limit (dBm) | 4132          | 4182  | 4233  | Tune-up Limit (dBm) |  |
|             | Rx Channel              | 4357  | 4407  | 4458  |                     | 4357          | 4407  | 4458  |                     |  |
|             | Frequency (MHz)         | 826.4 | 836.4 | 846.6 |                     | 826.4         | 836.4 | 846.6 |                     |  |
| 3GPP Rel 99 | AMR 12.2Kbps            | 22.13 | 22.25 | 22.22 | 24.00               | 20.51         | 20.68 | 20.61 | 21.90               |  |
| 3GPP Rel 99 | RMC 12.2Kbps            | 22.15 | 22.27 | 22.25 | 24.00               | 20.56         | 20.72 | 20.66 | 21.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-1         | 21.19 | 21.26 | 21.30 | 23.00               | 19.54         | 19.69 | 19.73 | 20.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-2         | 21.14 | 21.27 | 21.33 | 23.00               | 19.62         | 19.71 | 19.83 | 20.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-3         | 20.65 | 20.74 | 20.65 | 22.50               | 19.04         | 19.06 | 19.29 | 20.40               |  |
| 3GPP Rel 6  | HSDPA Subtest-4         | 20.65 | 20.74 | 20.77 | 22.50               | 18.97         | 19.23 | 19.32 | 20.40               |  |
| 3GPP Rel 8  | DC-HSDPA Subtest-1      | 21.10 | 21.21 | 21.02 | 23.00               | 19.73         | 19.70 | 19.71 | 20.90               |  |
| 3GPP Rel 8  | DC-HSDPA Subtest-2      | 21.06 | 21.13 | 21.09 | 23.00               | 19.61         | 19.70 | 19.66 | 20.90               |  |
| 3GPP Rel 8  | DC-HSDPA Subtest-3      | 20.53 | 20.69 | 20.58 | 22.50               | 19.25         | 19.22 | 19.06 | 20.40               |  |
| 3GPP Rel 8  | DC-HSDPA Subtest-4      | 20.70 | 20.71 | 20.59 | 22.50               | 19.13         | 19.15 | 19.10 | 20.40               |  |
| 3GPP Rel 6  | HSUPA Subtest-1         | 21.12 | 21.22 | 21.28 | 23.00               | 19.71         | 19.67 | 19.81 | 20.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-2         | 19.14 | 19.26 | 19.29 | 21.00               | 17.68         | 17.67 | 17.81 | 18.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-3         | 20.14 | 20.23 | 20.30 | 22.00               | 18.65         | 18.59 | 18.69 | 19.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-4         | 19.14 | 19.23 | 19.28 | 21.00               | 17.55         | 17.70 | 17.70 | 18.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-5         | 21.10 | 21.20 | 21.30 | 23.00               | 19.54         | 19.64 | 19.79 | 20.90               |  |
| 3GPP Rel 7  | HSPA+ (16QAM) Subtest-1 | 19.54 | 19.66 | 19.60 | 21.50               | 18.08         | 18.13 | 18.07 | 19.40               |  |

| GSM1900_Ant 0   | Burst Average Power (dbm) |        |       |        | Tune-up Limit (dbm) | Frame-Average Power (dbm) |       |        |       | Tune-up Limit (dbm) |
|-----------------|---------------------------|--------|-------|--------|---------------------|---------------------------|-------|--------|-------|---------------------|
|                 | TX Channel                | 512    | 661   | 810    |                     | 512                       | 661   | 810    |       |                     |
| Frequency (MHz) |                           | 1850.2 | 1680  | 1909.8 |                     | 1850.2                    | 1680  | 1909.8 |       |                     |
| GSM 1 Tx slot   |                           | 28.65  | 28.63 | 28.85  | 30.50               | 19.65                     | 19.83 | 19.85  | 21.50 |                     |
| GPRS 1 Tx slot  |                           | 28.63  | 28.81 | 28.83  | 30.50               | 19.63                     | 19.81 | 19.83  | 21.50 |                     |
| GPRS 2 Tx slots |                           | 26.61  | 26.48 | 26.50  | 27.50               | 20.61                     | 20.48 | 20.50  | 21.50 |                     |
| GPRS 3 Tx slots |                           | 24.83  | 24.88 | 24.81  | 25.80               | 20.57                     | 20.62 | 20.55  | 21.54 |                     |
| GPRS 4 Tx slots |                           | 23.40  | 23.41 | 23.27  | 24.50               | 20.40                     | 20.41 | 20.27  | 21.50 |                     |
| EDGE 1 Tx slot  |                           | 24.81  | 24.46 | 24.81  | 26.00               | 15.81                     | 15.46 | 15.81  | 19.00 |                     |
| EDGE 2 Tx slots |                           | 23.51  | 23.61 | 23.31  | 25.00               | 17.51                     | 17.61 | 17.31  | 19.00 |                     |
| EDGE 3 Tx slots |                           | 21.80  | 21.81 | 21.71  | 23.00               | 17.54                     | 17.55 | 17.45  | 18.74 |                     |
| EDGE 4 Tx slots |                           | 19.81  | 19.77 | 19.71  | 21.50               | 16.81                     | 16.77 | 16.71  | 18.50 |                     |

| Band            | WCDMA IV_Ant 0          |        |        |        | Tune-up Limit (dBm) | WCDMA IV_Ant 1 |        |        |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|--------|--------|---------------------|----------------|--------|--------|-------|---------------------|
|                 | TX Channel              | 1312   | 1413   | 1513   |                     | 1312           | 1413   | 1513   |       |                     |
| Rx Channel      |                         | 1537   | 1638   | 1738   |                     | 1537           | 1638   | 1738   |       |                     |
| Frequency (MHz) |                         | 1712.4 | 1732.6 | 1752.6 |                     | 1712.4         | 1732.6 | 1752.6 |       |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.52  | 22.80  | 22.68  | 24.00               | 16.30          | 16.57  | 16.42  | 17.90 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.54  | 22.82  | 22.70  | 24.00               | 16.33          | 16.61  | 16.44  | 17.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.57  | 21.82  | 21.72  | 23.00               | 15.31          | 15.61  | 15.51  | 16.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.56  | 21.81  | 21.66  | 23.00               | 15.28          | 15.69  | 15.51  | 16.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 21.09  | 21.30  | 21.21  | 22.50               | 14.89          | 15.10  | 14.98  | 16.40 |                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 21.03  | 21.38  | 21.15  | 22.50               | 14.80          | 15.09  | 14.97  | 16.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.35  | 21.72  | 21.47  | 23.00               | 15.30          | 15.54  | 15.49  | 16.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.38  | 21.75  | 21.59  | 23.00               | 15.37          | 15.41  | 15.31  | 16.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 20.99  | 21.13  | 21.04  | 22.50               | 14.94          | 14.86  | 14.72  | 16.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 20.79  | 21.21  | 20.99  | 22.50               | 14.78          | 14.93  | 14.78  | 16.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.80  | 21.83  | 21.69  | 23.00               | 15.50          | 15.60  | 15.56  | 16.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.80  | 19.86  | 19.76  | 21.00               | 13.61          | 13.62  | 13.55  | 14.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.78  | 20.85  | 20.73  | 22.00               | 14.53          | 14.64  | 14.49  | 15.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.75  | 19.81  | 19.74  | 21.00               | 13.54          | 13.64  | 13.50  | 14.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.78  | 21.90  | 21.70  | 23.00               | 15.59          | 15.64  | 15.50  | 16.90 |                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.59  | 20.55  | 20.52  | 21.50               | 13.88          | 14.11  | 14.08  | 15.40 |                     |



| Band 2_Ant 0  |            |            |              |                           |                            |                            |                         |             |  |
|---------------|------------|------------|--------------|---------------------------|----------------------------|----------------------------|-------------------------|-------------|--|
| BW<br>MHz     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch / Freq | Power<br>Mide<br>Ch / Freq | Power<br>High<br>Ch / Freq | Tune-up<br>int<br>(sec) | MPR<br>(dB) |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 20            | QPSK       | 1          | 0            | 22.54                     | 22.81                      | 22.93                      |                         |             |  |
| 20            | QPSK       | 1          | 49           | 22.63                     | 22.85                      | 22.92                      | 24                      | 0           |  |
| 20            | QPSK       | 1          | 98           | 22.82                     | 22.80                      | 22.83                      |                         |             |  |
| 20            | QPSK       | 50         | 0            | 22.67                     | 22.80                      | 22.95                      |                         |             |  |
| 20            | QPSK       | 50         | 24           | 22.55                     | 22.59                      | 22.92                      | 24                      | 0           |  |
| 20            | QPSK       | 50         | 50           | 22.54                     | 22.68                      | 22.95                      |                         |             |  |
| 20            | QPSK       | 100        | 0            | 22.66                     | 22.58                      | 22.91                      |                         |             |  |
| 20            | 16QAM      | 1          | 49           | 22.65                     | 22.92                      | 22.91                      | 24                      | 0           |  |
| 20            | 16QAM      | 1          | 99           | 22.94                     | 22.94                      | 22.95                      |                         |             |  |
| 20            | 16QAM      | 50         | 0            | 21.80                     | 21.85                      | 21.74                      |                         |             |  |
| 20            | 16QAM      | 50         | 24           | 21.73                     | 21.69                      | 21.80                      |                         |             |  |
| 20            | 16QAM      | 50         | 50           | 21.71                     | 21.75                      | 21.80                      | 23                      | 1           |  |
| 20            | 16QAM      | 100        | 0            | 21.86                     | 21.88                      | 21.84                      |                         |             |  |
| 20            | 64QAM      | 1          | 0            | 21.97                     | 21.86                      | 21.97                      |                         |             |  |
| 20            | 64QAM      | 1          | 49           | 21.90                     | 22.02                      | 21.85                      | 23                      | 1           |  |
| 20            | 64QAM      | 1          | 99           | 21.41                     | 21.73                      | 22.04                      |                         |             |  |
| 20            | 64QAM      | 50         | 0            | 20.79                     | 20.86                      | 20.74                      |                         |             |  |
| 20            | 64QAM      | 50         | 24           | 20.73                     | 20.78                      | 20.90                      | 22                      | 2           |  |
| 20            | 64QAM      | 50         | 50           | 20.80                     | 20.84                      | 20.87                      |                         |             |  |
| 20            | 64QAM      | 100        | 0            | 20.74                     | 20.71                      | 20.80                      |                         |             |  |
| 20            | 256QAM     | 1          | 0            | 18.72                     | 18.75                      | 18.85                      |                         |             |  |
| 20            | 256QAM     | 1          | 49           | 18.52                     | 18.58                      | 18.58                      | 20                      | 4           |  |
| 20            | 256QAM     | 1          | 99           | 18.59                     | 18.63                      | 18.63                      |                         |             |  |
| 20            | 256QAM     | 50         | 0            | 18.47                     | 18.60                      | 18.51                      |                         |             |  |
| 20            | 256QAM     | 50         | 24           | 18.47                     | 18.58                      | 18.48                      | 20                      | 4           |  |
| 20            | 256QAM     | 50         | 50           | 18.46                     | 18.52                      | 18.48                      |                         |             |  |
| 20            | 256QAM     | 100        | 0            | 18.62                     | 18.64                      | 18.64                      |                         |             |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 16            | QPSK       | 1          | 0            | 22.47                     | 22.49                      | 22.31                      |                         |             |  |
| 16            | QPSK       | 1          | 37           | 22.56                     | 22.49                      | 22.37                      | 24                      | 0           |  |
| 16            | QPSK       | 1          | 74           | 22.27                     | 22.47                      | 22.37                      |                         |             |  |
| 16            | QPSK       | 36         | 0            | 22.38                     | 22.39                      | 22.32                      |                         |             |  |
| 16            | QPSK       | 36         | 20           | 22.39                     | 22.44                      | 22.42                      | 24                      | 0           |  |
| 16            | QPSK       | 36         | 39           | 22.31                     | 22.45                      | 22.33                      |                         |             |  |
| 16            | QPSK       | 75         | 0            | 22.37                     | 22.48                      | 22.33                      |                         |             |  |
| 16            | 16QAM      | 1          | 0            | 22.47                     | 22.37                      | 22.48                      |                         |             |  |
| 16            | 16QAM      | 1          | 37           | 22.32                     | 22.13                      | 22.54                      | 24                      | 0           |  |
| 16            | 16QAM      | 1          | 74           | 22.42                     | 22.34                      | 22.48                      |                         |             |  |
| 16            | 16QAM      | 36         | 0            | 21.88                     | 21.48                      | 21.65                      |                         |             |  |
| 16            | 16QAM      | 36         | 20           | 21.54                     | 21.46                      | 21.50                      | 23                      | 1           |  |
| 16            | 16QAM      | 36         | 39           | 21.62                     | 21.53                      | 21.70                      |                         |             |  |
| 16            | 16QAM      | 75         | 0            | 21.46                     | 21.56                      | 21.68                      |                         |             |  |
| 16            | 16QAM      | 1          | 0            | 21.36                     | 21.61                      | 21.70                      |                         |             |  |
| 16            | 64QAM      | 1          | 37           | 21.70                     | 21.92                      | 21.62                      | 23                      | 1           |  |
| 16            | 64QAM      | 1          | 74           | 21.26                     | 21.36                      | 21.69                      |                         |             |  |
| 16            | 64QAM      | 36         | 0            | 20.97                     | 20.43                      | 20.49                      |                         |             |  |
| 16            | 64QAM      | 36         | 20           | 20.93                     | 20.56                      | 20.41                      | 22                      | 2           |  |
| 16            | 64QAM      | 36         | 39           | 20.42                     | 20.52                      | 20.57                      |                         |             |  |
| 16            | 64QAM      | 75         | 0            | 20.84                     | 20.55                      | 20.88                      |                         |             |  |
| 16            | 256QAM     | 1          | 0            | 18.64                     | 18.56                      | 18.50                      |                         |             |  |
| 16            | 256QAM     | 1          | 37           | 18.46                     | 18.47                      | 18.33                      | 20                      | 4           |  |
| 16            | 256QAM     | 1          | 74           | 18.39                     | 18.45                      | 18.37                      |                         |             |  |
| 16            | 256QAM     | 36         | 0            | 18.34                     | 18.44                      | 18.29                      |                         |             |  |
| 16            | 256QAM     | 36         | 20           | 18.37                     | 18.46                      | 18.30                      | 20                      | 4           |  |
| 16            | 256QAM     | 36         | 39           | 18.34                     | 18.28                      | 18.31                      |                         |             |  |
| 16            | 256QAM     | 75         | 0            | 18.37                     | 18.42                      | 18.28                      |                         |             |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 16            | QPSK       | 1          | 0            | 22.45                     | 22.48                      | 22.44                      |                         |             |  |
| 16            | QPSK       | 1          | 25           | 22.57                     | 22.40                      | 22.45                      | 24                      | 0           |  |
| 16            | QPSK       | 1          | 49           | 22.47                     | 22.41                      | 22.45                      |                         |             |  |
| 16            | QPSK       | 36         | 0            | 22.50                     | 22.35                      | 22.46                      |                         |             |  |
| 16            | QPSK       | 36         | 25           | 22.34                     | 22.39                      | 22.34                      | 24                      | 0           |  |
| 16            | QPSK       | 36         | 26           | 22.32                     | 22.34                      | 22.43                      |                         |             |  |
| 16            | QPSK       | 50         | 0            | 22.36                     | 22.34                      | 22.30                      |                         |             |  |
| 16            | 16QAM      | 1          | 0            | 22.40                     | 22.43                      | 22.44                      |                         |             |  |
| 16            | 16QAM      | 25         | 0            | 22.39                     | 22.23                      | 22.54                      | 24                      | 0           |  |
| 16            | 16QAM      | 1          | 49           | 22.42                     | 22.42                      | 22.41                      |                         |             |  |
| 16            | 16QAM      | 25         | 0            | 21.73                     | 21.43                      | 21.65                      |                         |             |  |
| 16            | 16QAM      | 25         | 12           | 21.51                     | 21.61                      | 21.72                      | 23                      | 1           |  |
| 16            | 16QAM      | 25         | 26           | 21.84                     | 21.53                      | 21.64                      |                         |             |  |
| 16            | 16QAM      | 50         | 0            | 21.53                     | 21.54                      | 21.67                      |                         |             |  |
| 16            | 64QAM      | 1          | 0            | 21.36                     | 21.67                      | 21.70                      |                         |             |  |
| 16            | 64QAM      | 1          | 25           | 21.72                     | 21.86                      | 21.68                      | 23                      | 1           |  |
| 16            | 64QAM      | 1          | 49           | 21.31                     | 21.60                      | 21.85                      |                         |             |  |
| 16            | 64QAM      | 25         | 0            | 20.99                     | 20.49                      | 20.53                      |                         |             |  |
| 16            | 64QAM      | 25         | 12           | 20.90                     | 20.58                      | 20.43                      | 22                      | 2           |  |
| 16            | 64QAM      | 25         | 26           | 20.63                     | 20.34                      | 20.67                      |                         |             |  |
| 16            | 64QAM      | 50         | 0            | 20.87                     | 20.66                      | 20.80                      |                         |             |  |
| 16            | 256QAM     | 1          | 0            | 18.61                     | 18.52                      | 18.41                      |                         |             |  |
| 16            | 256QAM     | 1          | 25           | 18.36                     | 18.46                      | 18.44                      | 20                      | 4           |  |
| 16            | 256QAM     | 1          | 49           | 18.46                     | 18.56                      | 18.52                      |                         |             |  |
| 16            | 256QAM     | 25         | 0            | 18.34                     | 18.36                      | 18.45                      |                         |             |  |
| 16            | 256QAM     | 25         | 12           | 18.36                     | 18.46                      | 18.42                      | 20                      | 4           |  |
| 16            | 256QAM     | 25         | 26           | 18.29                     | 18.45                      | 18.29                      |                         |             |  |
| 16            | 256QAM     | 50         | 0            | 18.51                     | 18.40                      | 18.17                      |                         |             |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 5             | QPSK       | 1          | 0            | 22.40                     | 22.47                      | 22.46                      |                         |             |  |
| 5             | QPSK       | 1          | 12           | 22.56                     | 22.51                      | 22.53                      | 24                      | 0           |  |
| 5             | QPSK       | 1          | 24           | 22.38                     | 22.50                      | 22.43                      |                         |             |  |
| 5             | QPSK       | 12         | 0            | 22.42                     | 22.45                      | 22.44                      |                         |             |  |
| 5             | QPSK       | 12         | 7            | 22.47                     | 22.44                      | 22.43                      | 24                      | 0           |  |
| 5             | QPSK       | 12         | 13           | 22.47                     | 22.42                      | 22.45                      |                         |             |  |
| 5             | QPSK       | 25         | 0            | 22.60                     | 22.52                      | 22.27                      |                         |             |  |
| 5             | 16QAM      | 1          | 0            | 22.40                     | 22.41                      | 22.41                      |                         |             |  |
| 5             | 16QAM      | 1          | 12           | 22.27                     | 22.11                      | 22.45                      | 24                      | 0           |  |
| 5             | 16QAM      | 1          | 24           | 22.42                     | 22.36                      | 22.42                      |                         |             |  |
| 5             | 16QAM      | 12         | 0            | 21.55                     | 21.20                      | 21.54                      |                         |             |  |
| 5             | 16QAM      | 12         | 7            | 21.67                     | 21.63                      | 21.71                      | 23                      | 1           |  |
| 5             | 16QAM      | 12         | 13           | 21.56                     | 21.67                      | 21.74                      |                         |             |  |
| 5             | 16QAM      | 25         | 0            | 21.56                     | 21.44                      | 21.75                      |                         |             |  |
| 5             | 64QAM      | 1          | 0            | 21.39                     | 21.75                      | 21.78                      |                         |             |  |
| 5             | 64QAM      | 1          | 12           | 21.56                     | 21.66                      | 21.74                      | 23                      | 1           |  |
| 5             | 64QAM      | 1          | 24           | 21.26                     | 21.64                      | 21.94                      |                         |             |  |
| 5             | 64QAM      | 12         | 0            | 20.83                     | 20.43                      | 20.86                      |                         |             |  |
| 5             | 64QAM      | 12         | 7            | 20.49                     | 20.66                      | 20.50                      | 22                      | 2           |  |
| 5             | 64QAM      | 12         | 13           | 20.59                     | 20.51                      | 20.71                      |                         |             |  |
| 5             | 64QAM      | 25         | 0            | 20.61                     | 20.61                      | 20.58                      |                         |             |  |
| 5             | 256QAM     | 1          | 0            | 18.49                     | 18.53                      | 18.51                      |                         |             |  |
| 5             | 256QAM     | 1          | 12           | 18.46                     | 18.56                      | 18.49                      | 20                      | 4           |  |
| 5             | 256QAM     | 1          | 24           | 18.47                     | 18.53                      | 18.34                      |                         |             |  |
| 5             | 256QAM     | 12         | 0            | 18.38                     | 18.48                      | 18.32                      |                         |             |  |
| 5             | 256QAM     | 12         | 7            | 18.39                     | 18.51                      | 18.33                      | 20                      | 4           |  |
| 5             | 256QAM     | 12         | 13           | 18.27                     | 18.33                      | 18.38                      |                         |             |  |
| 5             | 256QAM     | 25         | 0            | 18.40                     | 18.40                      | 18.24                      |                         |             |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 3             | QPSK       | 1          | 0            | 22.34                     | 22.40                      | 22.31                      |                         |             |  |
| 3             | QPSK       | 1          | 8            | 22.56                     | 22.48                      | 22.42                      | 24                      | 0           |  |
| 3             | QPSK       | 1          | 14           | 22.34                     | 22.42                      | 22.42                      |                         |             |  |
| 3             | QPSK       | 8          | 0            | 22.60                     | 22.54                      | 22.50                      |                         |             |  |
| 3             | QPSK       | 8          | 4            | 22.30                     | 22.36                      | 22.42                      | 24                      | 0           |  |
| 3             | QPSK       | 8          | 7            | 22.47                     | 22.43                      | 22.45                      |                         |             |  |
| 3             | QPSK       | 15         | 0            | 22.43                     | 22.42                      | 22.45                      |                         |             |  |
| 3             | 16QAM      | 1          | 0            | 22.45                     | 22.33                      | 22.48                      |                         |             |  |
| 3             | 16QAM      | 1          | 8            | 22.31                     | 22.18                      | 22.40                      | 24                      | 0           |  |
| 3             | 16QAM      | 1          | 14           | 22.31                     | 22.47                      | 22.31                      |                         |             |  |
| 3             | 16QAM      | 8          | 0            | 21.71                     | 21.46                      | 21.66                      |                         |             |  |
| 3             | 16QAM      | 8          | 4            | 21.61                     | 21.49                      | 21.73                      | 23                      | 1           |  |
| 3             | 16QAM      | 8          | 7            | 21.67                     | 21.53                      | 21.71                      |                         |             |  |
| 3             | 16QAM      | 15         | 0            | 21.41                     | 21.05                      | 21.73                      |                         |             |  |
| 3             | 64QAM      | 1          | 0            | 21.48                     | 21.66                      | 21.67                      |                         |             |  |
| 3             | 64QAM      | 1          | 8            | 21.63                     | 21.83                      | 21.73                      | 23                      | 1           |  |
| 3             | 64QAM      | 1          | 14           | 21.26                     | 21.49                      | 21.81                      |                         |             |  |
| 3             | 64QAM      | 8          | 0            | 20.66                     | 20.52                      | 20.57                      |                         |             |  |
| 3             | 64QAM      | 8          | 4            | 20.48                     | 20.63                      | 20.50                      | 22                      | 2           |  |
| 3             | 64QAM      | 8          | 7            | 20.41                     | 20.46                      | 20.61                      |                         |             |  |
| 3             | 64QAM      | 15         | 0            | 20.51                     | 20.60                      | 20.68                      |                         |             |  |
| 3             | 256QAM     | 1          | 0            | 18.56                     | 18.60                      | 18.44                      |                         |             |  |
| 3             | 256QAM     | 1          | 8            | 18.33                     | 18.51                      | 18.48                      | 20                      | 4           |  |
| 3             | 256QAM     | 1          | 14           | 18.46                     | 18.56                      | 18.29                      |                         |             |  |
| 3             | 256QAM     | 8          | 0            | 18.35                     | 18.39                      | 18.35                      |                         |             |  |
| 3             | 256QAM     | 8          | 4            | 18.35                     | 18.46                      | 18.35                      | 20                      | 4           |  |
| 3             | 256QAM     | 8          | 7            | 18.26                     | 18.46                      | 18.35                      |                         |             |  |
| 3             | 256QAM     | 15         | 0            | 18.45                     | 18.39                      | 18.26                      |                         |             |  |
| Channel       |            |            |              |                           |                            |                            |                         |             |  |
| Frequency MHz |            |            |              |                           |                            |                            |                         |             |  |
| 1.4           | QPSK       | 1          | 0            | 22.31                     | 22.40                      | 22.28                      |                         |             |  |
| 1.4           | QPSK       | 1          | 3            | 22.39                     | 22.45                      | 22.53                      | 24                      | 0           |  |
| 1.4           | QPSK       | 1          | 6            | 22.34                     | 22.42                      | 22.42                      |                         |             |  |
| 1.4           | QPSK       | 3          | 0            | 22.61                     | 22.40                      | 22.36                      |                         |             |  |
| 1.4           | QPSK       | 3          | 1            | 22.35                     | 22.47                      | 22.38                      | 24                      | 0           |  |
| 1.4           | QPSK       | 3          | 2            | 22.40                     | 22.49                      | 22.38                      |                         |             |  |
| 1.4           | QPSK       | 15         | 0            | 22.43                     | 22.33                      | 22.39                      |                         |             |  |
| 1.4           | 16QAM      | 1          | 0            | 22.30                     | 22.45                      | 22.44                      |                         |             |  |
| 1.4           | 16QAM      | 1          | 3            | 22.30                     | 22.23                      | 22.38                      | 24                      | 0           |  |
| 1.4           | 16QAM      | 1          | 6            | 22.36                     | 22.28                      | 22.31                      |                         |             |  |
| 1.4           | 16QAM      | 3          | 0            | 22.36                     | 22.42                      | 22.42                      | 24                      | 0           |  |
| 1.4           | 16QAM      | 3          | 1            | 22.50                     | 22.40                      | 22.42                      |                         |             |  |
| 1.4           | 16QAM      | 3          | 2            | 22.44                     | 22.32                      | 22.44                      |                         |             |  |
| 1.4           | 16QAM      | 6          | 0            | 21.80                     | 21.44                      | 21.66                      |                         |             |  |
| 1.4           | 16QAM      | 6          | 3            | 21.37                     | 21.61                      | 21.67                      | 23                      | 1           |  |
| 1.4           | 16QAM      | 6          | 6            | 21.42                     | 21.56                      | 21.44                      |                         |             |  |
| 1.4           | 16QAM      | 3          | 5            | 21.17                     | 21.56                      | 21.73                      |                         |             |  |
| 1.4           | 64QAM      | 1          | 0            | 21.70                     | 21.52                      | 21.68                      |                         |             |  |
| 1.4           | 64QAM      | 1          | 3            | 21.82                     | 21.68                      | 21.68                      | 23                      | 1           |  |
| 1.4           | 64QAM      | 1          | 6            | 21.33                     | 21.58                      | 21.59                      |                         |             |  |



| Band 4_Ant 1    |            |        |           |                                                                              |                                                               |                                                  |                   |          |      |   |  |  |
|-----------------|------------|--------|-----------|------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|-------------------|----------|------|---|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Low Ch / Freq.                                                         | Power Mide Ch / Freq.                                         | Power High Ch / Freq.                            | Tuneup Int. (dBm) | MFR (dB) |      |   |  |  |
| Channel         |            |        |           |                                                                              |                                                               |                                                  |                   |          |      |   |  |  |
| Frequency (MHz) |            |        |           | 20650                                                                        | 20175                                                         | 20350                                            |                   |          |      |   |  |  |
| 20              | QPSK       | 1      | 0         | 17.20                                                                        | 17.22                                                         | 17.46                                            |                   |          | 18.1 | 0 |  |  |
| 20              | QPSK       | 1      | 48        | 16.95                                                                        | 17.03                                                         | 16.95                                            |                   |          |      |   |  |  |
| 20              | QPSK       | 1      | 96        | 16.93                                                                        | 16.98                                                         | 16.96                                            |                   |          |      |   |  |  |
| 20              | QPSK       | 50     | 0         | 16.95                                                                        | 16.97                                                         | 16.91                                            |                   |          |      |   |  |  |
| 20              | QPSK       | 50     | 24        | 16.87                                                                        | 16.87                                                         | 16.88                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 1      | 0         | 16.94                                                                        | 16.95                                                         | 16.85                                            |                   |          | 18.1 | 0 |  |  |
| 20              | HQAM       | 50     | 48        | 16.90                                                                        | 16.94                                                         | 16.84                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 1      | 96        | 16.93                                                                        | 16.95                                                         | 16.94                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 50     | 0         | 16.90                                                                        | 16.96                                                         | 16.88                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 50     | 24        | 16.97                                                                        | 16.98                                                         | 16.93                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 100    | 0         | 16.93                                                                        | 16.95                                                         | 16.94                                            |                   |          | 18.1 | 0 |  |  |
| 20              | HQAM       | 100    | 0         | 16.93                                                                        | 16.95                                                         | 16.94                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 1      | 96        | 16.96                                                                        | 16.97                                                         | 16.93                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 50     | 0         | 16.94                                                                        | 16.99                                                         | 16.94                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 50     | 24        | 16.98                                                                        | 16.93                                                         | 16.86                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 50     | 50        | 16.95                                                                        | 16.96                                                         | 16.87                                            |                   |          | 18.1 | 0 |  |  |
| 20              | HQAM       | 100    | 0         | 16.93                                                                        | 16.98                                                         | 16.88                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 100    | 0         | 16.93                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 1      | 48        | 16.97                                                                        | 16.99                                                         | 16.97                                            |                   |          |      |   |  |  |
| 20              | HQAM       | 1      | 96        | 16.99                                                                        | 16.99                                                         | 16.97                                            |                   |          |      |   |  |  |
| 20              | SSBDM      | 1      | 0         | 16.90                                                                        | 17.00                                                         | 16.96                                            |                   |          | 18.1 | 0 |  |  |
| 20              | SSBDM      | 1      | 37        | 16.95                                                                        | 16.99                                                         | 16.97                                            |                   |          |      |   |  |  |
| 20              | SSBDM      | 50     | 0         | 16.92                                                                        | 16.97                                                         | 16.91                                            |                   |          |      |   |  |  |
| 20              | SSBDM      | 50     | 24        | 16.97                                                                        | 16.94                                                         | 16.88                                            |                   |          |      |   |  |  |
| 20              | SSBDM      | 50     | 50        | 16.97                                                                        | 16.94                                                         | 16.88                                            |                   |          |      |   |  |  |
| Channel         |            |        |           | 20625                                                                        | 20175                                                         | 20350                                            | Tuneup Int. (dBm) | MFR (dB) |      |   |  |  |
| Frequency (MHz) |            |        |           | 17.175 <th>17.225<th>17.475<th></th><th></th><th colspan="4"></th></th></th> | 17.225 <th>17.475<th></th><th></th><th colspan="4"></th></th> | 17.475 <th></th> <th></th> <th colspan="4"></th> |                   |          |      |   |  |  |
| 15              | QPSK       | 1      | 0         | 16.87                                                                        | 16.87                                                         | 16.87                                            |                   |          | 18.1 | 0 |  |  |
| 15              | QPSK       | 1      | 37        | 16.92                                                                        | 16.87                                                         | 16.93                                            |                   |          |      |   |  |  |
| 15              | QPSK       | 1      | 74        | 16.96                                                                        | 16.88                                                         | 16.88                                            |                   |          |      |   |  |  |
| 15              | QPSK       | 36     | 0         | 16.94                                                                        | 16.94                                                         | 16.94                                            |                   |          |      |   |  |  |
| 15              | QPSK       | 36     | 20        | 16.96                                                                        | 16.77                                                         | 16.95                                            |                   |          |      |   |  |  |
| 15              | QPSK       | 36     | 39        | 16.89                                                                        | 16.83                                                         | 16.90                                            |                   |          | 18.1 | 0 |  |  |
| 15              | QPSK       | 75     | 0         | 16.91                                                                        | 16.87                                                         | 16.91                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 1      | 0         | 16.87                                                                        | 16.89                                                         | 16.84                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 36     | 0         | 16.90                                                                        | 16.91                                                         | 16.88                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 36     | 20        | 16.93                                                                        | 16.95                                                         | 16.95                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 75     | 0         | 16.90                                                                        | 16.88                                                         | 16.92                                            |                   |          | 18.1 | 0 |  |  |
| 15              | HQAM       | 75     | 0         | 16.92                                                                        | 16.90                                                         | 16.86                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 1      | 37        | 16.87                                                                        | 16.93                                                         | 16.90                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 1      | 74        | 16.91                                                                        | 16.92                                                         | 16.89                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 36     | 0         | 16.92                                                                        | 16.95                                                         | 16.92                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 36     | 12        | 16.93                                                                        | 16.95                                                         | 16.94                                            |                   |          | 18.1 | 0 |  |  |
| 15              | HQAM       | 36     | 36        | 16.91                                                                        | 16.94                                                         | 16.85                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 75     | 0         | 16.90                                                                        | 16.88                                                         | 16.92                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 75     | 0         | 16.92                                                                        | 16.90                                                         | 16.86                                            |                   |          |      |   |  |  |
| 15              | HQAM       | 1      | 74        | 16.93                                                                        | 16.92                                                         | 16.89                                            |                   |          |      |   |  |  |
| 15              | SSBDM      | 1      | 0         | 16.92                                                                        | 16.95                                                         | 16.92                                            |                   |          | 18.1 | 0 |  |  |
| 15              | SSBDM      | 1      | 37        | 16.95                                                                        | 16.94                                                         | 16.95                                            |                   |          |      |   |  |  |
| 15              | SSBDM      | 36     | 0         | 16.87                                                                        | 16.90                                                         | 16.91                                            |                   |          |      |   |  |  |
| 15              | SSBDM      | 36     | 20        | 16.93                                                                        | 16.85                                                         | 16.89                                            |                   |          |      |   |  |  |
| 15              | SSBDM      | 36     | 39        | 16.90                                                                        | 16.84                                                         | 16.91                                            |                   |          |      |   |  |  |
| Channel         |            |        |           | 20600                                                                        | 20175                                                         | 20350                                            | Tuneup Int. (dBm) | MFR (dB) |      |   |  |  |
| Frequency (MHz) |            |        |           | 17.175 <th>17.225<th>17.500<th></th><th></th><th colspan="4"></th></th></th> | 17.225 <th>17.500<th></th><th></th><th colspan="4"></th></th> | 17.500 <th></th> <th></th> <th colspan="4"></th> |                   |          |      |   |  |  |
| 10              | QPSK       | 1      | 0         | 16.91                                                                        | 16.89                                                         | 16.94                                            |                   |          | 18.1 | 0 |  |  |
| 10              | QPSK       | 1      | 25        | 16.93                                                                        | 16.86                                                         | 16.94                                            |                   |          |      |   |  |  |
| 10              | QPSK       | 1      | 48        | 16.85                                                                        | 16.88                                                         | 16.90                                            |                   |          |      |   |  |  |
| 10              | QPSK       | 25     | 0         | 16.92                                                                        | 16.90                                                         | 16.92                                            |                   |          |      |   |  |  |
| 10              | QPSK       | 25     | 12        | 16.90                                                                        | 16.79                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | QPSK       | 25     | 37        | 16.94                                                                        | 16.87                                                         | 16.98                                            |                   |          | 18.1 | 0 |  |  |
| 10              | QPSK       | 50     | 0         | 16.93                                                                        | 16.90                                                         | 16.91                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 1      | 0         | 16.92                                                                        | 16.88                                                         | 16.89                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 1      | 25        | 16.91                                                                        | 16.87                                                         | 16.92                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 0         | 16.94                                                                        | 16.91                                                         | 16.84                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 12        | 16.94                                                                        | 16.96                                                         | 16.94                                            |                   |          | 18.1 | 0 |  |  |
| 10              | HQAM       | 50     | 0         | 16.93                                                                        | 16.90                                                         | 16.88                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 50     | 0         | 16.93                                                                        | 16.95                                                         | 16.89                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 1      | 48        | 16.90                                                                        | 16.92                                                         | 16.95                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 0         | 16.92                                                                        | 16.93                                                         | 16.94                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 12        | 16.95                                                                        | 16.96                                                         | 16.97                                            |                   |          | 18.1 | 0 |  |  |
| 10              | HQAM       | 50     | 0         | 16.93                                                                        | 16.90                                                         | 16.88                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 50     | 0         | 16.93                                                                        | 16.94                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 25        | 16.90                                                                        | 16.94                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | HQAM       | 25     | 37        | 16.97                                                                        | 16.94                                                         | 16.98                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 1      | 0         | 16.90                                                                        | 16.96                                                         | 16.90                                            |                   |          | 18.1 | 0 |  |  |
| 10              | SSBDM      | 1      | 25        | 16.93                                                                        | 16.89                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 1      | 48        | 16.93                                                                        | 16.93                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 25     | 0         | 16.90                                                                        | 16.97                                                         | 16.91                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 25     | 12        | 16.90                                                                        | 16.79                                                         | 16.93                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 25     | 37        | 16.91                                                                        | 16.87                                                         | 16.91                                            |                   |          | 18.1 | 0 |  |  |
| 10              | SSBDM      | 50     | 0         | 16.93                                                                        | 16.88                                                         | 16.91                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 50     | 0         | 16.93                                                                        | 16.90                                                         | 16.88                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 25     | 25        | 16.78                                                                        | 16.95                                                         | 16.95                                            |                   |          |      |   |  |  |
| 10              | SSBDM      | 50     | 0         | 16.91                                                                        | 16.91                                                         | 16.94                                            |                   |          |      |   |  |  |
| Channel         |            |        |           | 19975                                                                        | 19975                                                         | 20375                                            | Tuneup Int. (dBm) | MFR (dB) |      |   |  |  |
| Frequency (MHz) |            |        |           | 17.125 <th>17.325<th>17.525<th></th><th></th><th colspan="4"></th></th></th> | 17.325 <th>17.525<th></th><th></th><th colspan="4"></th></th> | 17.525 <th></th> <th></th> <th colspan="4"></th> |                   |          |      |   |  |  |
| 5               | QPSK       | 1      | 0         | 16.91                                                                        | 16.89                                                         | 16.94                                            |                   |          | 18.1 | 0 |  |  |
| 5               | QPSK       | 1      | 12        | 16.90                                                                        | 16.88                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | QPSK       | 1      | 24        | 16.94                                                                        | 16.90                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | QPSK       | 12     | 0         | 16.94                                                                        | 16.90                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | QPSK       | 12     | 7         | 16.93                                                                        | 16.84                                                         | 16.89                                            |                   |          |      |   |  |  |
| 5               | QPSK       | 12     | 11        | 16.95                                                                        | 16.91                                                         | 16.91                                            |                   |          | 18.1 | 0 |  |  |
| 5               | QPSK       | 25     | 0         | 16.90                                                                        | 16.88                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 0         | 16.85                                                                        | 16.88                                                         | 16.87                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 12        | 16.95                                                                        | 16.84                                                         | 16.88                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 24        | 16.91                                                                        | 16.91                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 0         | 16.86                                                                        | 16.93                                                         | 16.92                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 12     | 7         | 16.91                                                                        | 16.83                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 13        | 16.92                                                                        | 16.86                                                         | 16.98                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 24        | 16.95                                                                        | 16.91                                                         | 16.95                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 1      | 24        | 16.91                                                                        | 16.91                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 0         | 16.86                                                                        | 16.93                                                         | 16.92                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 7         | 16.91                                                                        | 16.83                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 13        | 16.92                                                                        | 16.86                                                         | 16.98                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 24        | 16.95                                                                        | 16.91                                                         | 16.95                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 24        | 16.91                                                                        | 16.91                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 0         | 16.86                                                                        | 16.93                                                         | 16.92                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 12     | 7         | 16.91                                                                        | 16.83                                                         | 16.91                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 12     | 13        | 16.92                                                                        | 16.86                                                         | 16.98                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 25     | 0         | 16.86                                                                        | 16.95                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 24        | 16.95                                                                        | 16.91                                                         | 16.95                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 0         | 16.81                                                                        | 16.84                                                         | 16.82                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 1      | 14        | 16.92                                                                        | 16.92                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 0         | 16.92                                                                        | 16.85                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.94                                                                        | 16.84                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.90                                                                        | 16.90                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.90                                                         | 16.91                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.90                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 0         | 16.90                                                                        | 16.89                                                         | 16.88                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.94                                                                        | 16.84                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.94                                                         | 16.92                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 0         | 16.81                                                                        | 16.84                                                         | 16.82                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 1      | 14        | 16.92                                                                        | 16.92                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 0         | 16.92                                                                        | 16.85                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.94                                                                        | 16.84                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.90                                                                        | 16.90                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.90                                                         | 16.91                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.90                                                         | 16.91                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 14        | 16.91                                                                        | 16.92                                                         | 16.88                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 14        | 16.91                                                                        | 16.92                                                         | 16.88                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.90                                                                        | 16.92                                                         | 16.90                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 8      | 7         | 16.89                                                                        | 16.83                                                         | 16.97                                            |                   |          | 18.1 | 0 |  |  |
| 5               | HQAM       | 8      | 7         | 16.85                                                                        | 16.84                                                         | 16.94                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.94                                                         | 16.92                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 15     | 0         | 16.85                                                                        | 16.94                                                         | 16.92                                            |                   |          |      |   |  |  |
| 5               | HQAM       | 1      | 0         | 16.81                                                                        | 16.84                                                         | 16.82                                            |                   |          |      |   |  |  |
| Channel         |            |        |           | 19965                                                                        | 19975                                                         | 20395                                            | Tuneup Int. (dBm) | MFR (dB) |      |   |  |  |
| Frequency (MHz) |            |        |           | 17.105 <th>17.305<th>17.543<th></th><th></th><th colspan="4"></th></th></th> | 17.305 <th>17.543<th></th><th></th><th colspan="4"></th></th> | 17.543 <th></th> <th></th> <th colspan="4"></th> |                   |          |      |   |  |  |
| 1.4             | QPSK       | 1      | 0         | 16.91                                                                        | 16.93                                                         | 16.97                                            |                   |          | 18.1 | 0 |  |  |
| 1.4             | QPSK       | 1      | 12        | 16.90                                                                        | 16.88                                                         | 16.97                                            |                   |          |      |   |  |  |
| 1.4             | QPSK       | 1      | 5         | 16.90                                                                        | 16.90                                                         | 16.92                                            |                   |          |      |   |  |  |
| 1.4             | QPSK       | 3      | 0         | 16.92                                                                        | 16.90                                                         | 16.94                                            |                   |          |      |   |  |  |
| 1.4             | QPSK       | 3      | 12        | 16.92                                                                        | 16.97                                                         | 16.97                                            |                   |          |      |   |  |  |
| 1.4             | HQAM       | 6      | 0         | 16.89                                                                        | 16.90                                                         | 16.98                                            |                   |          | 18.1 | 0 |  |  |
| 1.4             | HQAM       | 6      | 0         | 16.89                                                                        | 16.90                                                         | 16.98                                            |                   |          |      |   |  |  |
| 1.4             | HQAM       | 1      | 3         | 16.89                                                                        | 16.89                                                         | 16.98                                            |                   |          |      |   |  |  |
| 1.4             | HQAM       | 1      | 6         | 16.90                                                                        | 16.90                                                         | 16.98                                            |                   |          |      |   |  |  |
| 1.4             | HQAM       | 1      | 9         | 16.93                                                                        | 16.91                                                         | 16.98                                            |                   |          |      |   |  |  |
| 1.4             | HQAM       | 6      | 0         |                                                                              |                                                               |                                                  |                   |          |      |   |  |  |

| Band 7_Ant 1    |            |         |           |                     |                      |                      |                      |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mide Ch / Freq | Power High Ch / Freq | Time-use (int / dim) | MPR (dB) |  |
| Channel         |            |         |           |                     |                      |                      |                      |          |  |
| Frequency (MHz) |            |         |           | 2550                | 2565                 | 2580                 |                      |          |  |
| 20              | QPSK       | 1       | 0         | 14.08               | 14.11                | 14.02                | 15.6                 | 0        |  |
| 20              | QPSK       | 1       | 48        | 14.08               | 14.13                | 14.03                |                      |          |  |
| 20              | QPSK       | 1       | 96        | 14.05               | 14.11                | 14.04                |                      |          |  |
| 20              | QPSK       | 50      | 0         | 14.08               | 14.12                | 14.06                |                      |          |  |
| 20              | QPSK       | 50      | 24        | 14.05               | 14.01                | 14.01                |                      |          |  |
| 20              | QPSK       | 50      | 50        | 14.08               | 14.03                | 14.04                | 15.6                 | 0        |  |
| 20              | QPSK       | 100     | 0         | 14.10               | 14.11                | 14.09                |                      |          |  |
| 20              | HQAM       | 1       | 0         | 14.01               | 14.01                | 14.09                |                      |          |  |
| 20              | HQAM       | 1       | 48        | 14.02               | 14.01                | 14.05                |                      |          |  |
| 20              | HQAM       | 1       | 96        | 14.03               | 14.02                | 14.05                |                      |          |  |
| 20              | HQAM       | 50      | 0         | 14.03               | 14.03                | 13.99                | 15.6                 | 0        |  |
| 20              | HQAM       | 50      | 24        | 13.99               | 14.03                | 14.02                |                      |          |  |
| 20              | HQAM       | 50      | 50        | 14.00               | 14.01                | 14.01                |                      |          |  |
| 20              | HQAM       | 100     | 0         | 14.06               | 14.02                | 14.03                |                      |          |  |
| 20              | HQAM       | 1       | 0         | 14.02               | 14.02                | 14.07                |                      |          |  |
| 20              | HQAM       | 1       | 48        | 14.02               | 14.07                | 14.05                | 15.6                 | 0        |  |
| 20              | HQAM       | 1       | 96        | 14.05               | 14.04                | 14.04                |                      |          |  |
| 20              | HQAM       | 50      | 0         | 14.01               | 14.12                | 14.05                |                      |          |  |
| 20              | HQAM       | 50      | 24        | 14.00               | 14.03                | 14.03                |                      |          |  |
| 20              | HQAM       | 50      | 50        | 14.09               | 13.98                | 14.03                |                      |          |  |
| 20              | SSBQAM     | 1       | 0         | 14.11               | 14.05                | 13.98                | 15.6                 | 0        |  |
| 20              | SSBQAM     | 1       | 48        | 14.04               | 14.11                | 14.10                |                      |          |  |
| 20              | SSBQAM     | 50      | 0         | 13.99               | 14.12                | 14.04                |                      |          |  |
| 20              | SSBQAM     | 50      | 24        | 14.02               | 14.01                | 14.03                |                      |          |  |
| 20              | SSBQAM     | 50      | 50        | 13.99               | 14.09                | 14.03                |                      |          |  |
| 20              | SSBQAM     | 100     | 0         | 14.11               | 14.05                | 13.98                |                      |          |  |
| Channel         |            |         |           |                     |                      |                      |                      |          |  |
| Frequency (MHz) |            |         |           | 2585                | 2598                 | 2575                 | Time-use (int / dim) | MPR (dB) |  |
| 15              | QPSK       | 1       | 0         | 14.07               | 14.10                | 14.03                | 15.6                 | 0        |  |
| 15              | QPSK       | 1       | 37        | 14.00               | 14.01                | 14.04                |                      |          |  |
| 15              | QPSK       | 1       | 74        | 14.02               | 14.04                | 14.04                |                      |          |  |
| 15              | QPSK       | 36      | 0         | 14.09               | 14.09                | 13.98                |                      |          |  |
| 15              | QPSK       | 36      | 20        | 14.08               | 14.12                | 14.03                |                      |          |  |
| 15              | QPSK       | 36      | 24        | 14.12               | 13.98                | 14.05                | 15.6                 | 0        |  |
| 15              | QPSK       | 75      | 0         | 14.11               | 14.11                | 13.99                |                      |          |  |
| 15              | HQAM       | 1       | 0         | 14.02               | 14.07                | 14.10                |                      |          |  |
| 15              | HQAM       | 1       | 37        | 13.99               | 14.03                | 14.03                |                      |          |  |
| 15              | HQAM       | 1       | 74        | 14.11               | 14.12                | 14.00                |                      |          |  |
| 15              | HQAM       | 36      | 0         | 14.03               | 14.08                | 14.05                | 15.6                 | 0        |  |
| 15              | HQAM       | 36      | 20        | 14.12               | 13.98                | 14.05                |                      |          |  |
| 15              | HQAM       | 36      | 24        | 14.07               | 14.10                | 14.03                |                      |          |  |
| 15              | HQAM       | 75      | 0         | 14.05               | 14.07                | 14.10                |                      |          |  |
| 15              | HQAM       | 1       | 37        | 13.99               | 14.11                | 14.09                |                      |          |  |
| 15              | HQAM       | 1       | 74        | 14.02               | 14.06                | 14.08                | 15.6                 | 0        |  |
| 15              | HQAM       | 36      | 20        | 14.12               | 14.02                | 13.98                |                      |          |  |
| 15              | HQAM       | 36      | 24        | 14.09               | 14.06                | 14.05                |                      |          |  |
| 15              | HQAM       | 75      | 0         | 14.05               | 14.06                | 14.06                |                      |          |  |
| 15              | HQAM       | 36      | 20        | 14.02               | 14.09                | 14.09                |                      |          |  |
| 15              | HQAM       | 36      | 24        | 14.06               | 14.12                | 14.00                | 15.6                 | 0        |  |
| 15              | HQAM       | 75      | 0         | 14.05               | 14.06                | 14.06                |                      |          |  |
| 15              | HQAM       | 1       | 37        | 14.00               | 14.10                | 14.12                |                      |          |  |
| 15              | HQAM       | 1       | 74        | 14.03               | 14.07                | 13.98                |                      |          |  |
| 15              | SSBQAM     | 36      | 0         | 14.10               | 14.01                | 14.05                |                      |          |  |
| 15              | SSBQAM     | 36      | 20        | 14.03               | 14.01                | 14.03                | 15.6                 | 0        |  |
| 15              | SSBQAM     | 36      | 24        | 14.08               | 14.07                | 14.04                |                      |          |  |
| 15              | SSBQAM     | 75      | 0         | 14.08               | 14.07                | 14.04                |                      |          |  |
| 15              | SSBQAM     | 75      | 0         | 14.08               | 14.07                | 14.04                |                      |          |  |
| Channel         |            |         |           |                     |                      |                      |                      |          |  |
| Frequency (MHz) |            |         |           | 2595                | 2585                 | 2565                 | Time-use (int / dim) | MPR (dB) |  |
| 10              | QPSK       | 1       | 0         | 13.98               | 14.07                | 14.02                | 15.6                 | 0        |  |
| 10              | QPSK       | 1       | 25        | 14.06               | 14.06                | 13.98                |                      |          |  |
| 10              | QPSK       | 1       | 50        | 14.00               | 14.00                | 14.01                |                      |          |  |
| 10              | QPSK       | 25      | 12        | 14.02               | 14.09                | 13.98                |                      |          |  |
| 10              | QPSK       | 25      | 12        | 14.02               | 14.09                | 13.98                |                      |          |  |
| 10              | QPSK       | 25      | 12        | 14.02               | 14.09                | 13.98                | 15.6                 | 0        |  |
| 10              | HQAM       | 1       | 0         | 14.08               | 14.03                | 14.03                |                      |          |  |
| 10              | HQAM       | 1       | 0         | 14.03               | 13.98                | 13.99                |                      |          |  |
| 10              | HQAM       | 1       | 12        | 14.06               | 14.10                | 14.11                |                      |          |  |
| 10              | HQAM       | 1       | 48        | 14.00               | 14.08                | 14.03                |                      |          |  |
| 10              | HQAM       | 25      | 0         | 13.98               | 13.99                | 14.00                | 15.6                 | 0        |  |
| 10              | HQAM       | 25      | 12        | 14.01               | 14.10                | 14.11                |                      |          |  |
| 10              | HQAM       | 25      | 25        | 14.09               | 14.10                | 14.01                |                      |          |  |
| 10              | HQAM       | 50      | 0         | 14.04               | 14.01                | 13.98                |                      |          |  |
| 10              | HQAM       | 1       | 0         | 14.12               | 14.01                | 14.10                |                      |          |  |
| 10              | HQAM       | 1       | 25        | 14.11               | 14.07                | 14.10                | 15.6                 | 0        |  |
| 10              | HQAM       | 1       | 48        | 14.06               | 13.99                | 14.01                |                      |          |  |
| 10              | HQAM       | 25      | 0         | 13.98               | 14.03                | 14.07                |                      |          |  |
| 10              | HQAM       | 25      | 12        | 14.03               | 14.09                | 14.06                |                      |          |  |
| 10              | HQAM       | 50      | 0         | 14.09               | 14.06                | 14.05                |                      |          |  |
| 10              | SSBQAM     | 1       | 0         | 14.06               | 14.12                | 14.05                | 15.6                 | 0        |  |
| 10              | SSBQAM     | 1       | 48        | 14.11               | 14.09                | 14.10                |                      |          |  |
| 10              | SSBQAM     | 25      | 0         | 14.01               | 14.04                | 14.02                |                      |          |  |
| 10              | SSBQAM     | 25      | 12        | 14.06               | 14.03                | 14.06                |                      |          |  |
| 10              | SSBQAM     | 25      | 25        | 14.03               | 14.05                | 14.12                |                      |          |  |
| 10              | SSBQAM     | 50      | 0         | 14.01               | 14.03                | 14.10                | 15.6                 | 0        |  |
| 10              | SSBQAM     | 50      | 0         | 14.01               | 14.03                | 14.10                |                      |          |  |
| Channel         |            |         |           |                     |                      |                      |                      |          |  |
| Frequency (MHz) |            |         |           | 2595                | 2585                 | 2575                 | Time-use (int / dim) | MPR (dB) |  |
| 5               | QPSK       | 1       | 0         | 14.00               | 14.07                | 14.02                | 15.6                 | 0        |  |
| 5               | QPSK       | 1       | 12        | 14.02               | 14.04                | 14.05                |                      |          |  |
| 5               | QPSK       | 1       | 24        | 14.01               | 14.04                | 14.11                |                      |          |  |
| 5               | QPSK       | 12      | 0         | 14.03               | 14.08                | 14.04                |                      |          |  |
| 5               | QPSK       | 12      | 7         | 14.02               | 13.98                | 14.03                |                      |          |  |
| 5               | QPSK       | 12      | 13        | 14.12               | 13.98                | 14.10                | 15.6                 | 0        |  |
| 5               | QPSK       | 12      | 7         | 14.01               | 14.08                | 14.05                |                      |          |  |
| 5               | HQAM       | 1       | 0         | 13.99               | 14.11                | 14.11                |                      |          |  |
| 5               | HQAM       | 1       | 12        | 14.06               | 14.02                | 14.12                |                      |          |  |
| 5               | HQAM       | 1       | 24        | 14.01               | 14.04                | 14.05                |                      |          |  |
| 5               | HQAM       | 12      | 0         | 13.99               | 14.04                | 14.05                | 15.6                 | 0        |  |
| 5               | HQAM       | 12      | 7         | 13.99               | 14.04                | 14.03                |                      |          |  |
| 5               | HQAM       | 12      | 13        | 14.05               | 14.05                | 14.05                |                      |          |  |
| 5               | HQAM       | 25      | 0         | 14.01               | 14.08                | 14.08                |                      |          |  |
| 5               | HQAM       | 25      | 12        | 14.03               | 14.09                | 13.98                |                      |          |  |
| 5               | SSBQAM     | 1       | 0         | 14.12               | 14.02                | 14.07                | 15.6                 | 0        |  |
| 5               | SSBQAM     | 1       | 12        | 14.01               | 14.11                | 14.09                |                      |          |  |
| 5               | SSBQAM     | 12      | 0         | 14.01               | 14.05                | 14.04                |                      |          |  |
| 5               | SSBQAM     | 12      | 7         | 14.06               | 14.12                | 14.11                |                      |          |  |
| 5               | SSBQAM     | 12      | 13        | 14.08               | 14.12                | 14.11                |                      |          |  |

| Band 12_Ant 0   |            |         |           |                     |                      |                      |                    |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mide Ch / Freq | Power High Ch / Freq | Turn-up time (dms) | MPR (dB) |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |  |
| Frequency (MHz) |            |         |           | 23000               | 23050                | 23100                |                    |          |  |
| 10              | QPSK       | 1       | 0         | 704                 | 737                  | 715                  |                    |          |  |
| 10              | QPSK       | 1       | 25        | 715                 | 737.5                | 740                  |                    |          |  |
| 10              | QPSK       | 1       | 49        | 22.82               | 22.82                | 22.84                | 24                 | 0        |  |
| 10              | QPSK       | 25      | 0         | 22.81               | 22.81                | 22.82                |                    |          |  |
| 10              | QPSK       | 25      | 12        | 22.87               | 22.84                | 22.90                | 24                 | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | QPSK       | 50      | 0         | 22.85               | 22.87                | 22.91                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.82               | 22.87                | 22.82                | 24                 | 0        |  |
| 10              | HQAM       | 25      | 0         | 22.81               | 22.81                | 22.82                |                    |          |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                | 23                 |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 22.11               | 22.15                | 22.15                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 |          |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                | 23                 |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 22                 | 2        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 20                 | 4        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 20                 | 4        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.82               | 22.84                | 22.85                | 23                 | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.87               | 22.84                | 22.90                |                    |          |  |
| 10              | HQAM       | 25      | 25        | 22.84               | 22.87                | 22.88                |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11                | 21.18                |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.78               | 22.85                | 22.85                |                    |          |  |
| 10              | HQAM       | 25      | 0         |                     |                      |                      |                    |          |  |



| Band 13_Ant 1   |            |         |           |                     |                        |                      |                    |          |  |  |                             |  |  |  |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|--------------------|----------|--|--|-----------------------------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Time-up (int / dB) | MFR (dB) |  |  |                             |  |  |  |
| Channel         |            |         |           |                     |                        |                      | 2330               |          |  |  |                             |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      | 19.77              |          |  |  |                             |  |  |  |
| 10              | QPSK       | 1       | 0         | 19.77               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | QPSK       | 1       | 25        | 19.96               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | QPSK       | 1       | 49        | 19.72               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | QPSK       | 25      | 0         | 19.89               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | QPSK       | 25      | 12        | 19.77               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | QPSK       | 25      | 25        | 19.76               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | QPSK       | 50      | 0         | 19.85               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | QPSK       | 50      | 1         | 19.81               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | QPSK       | 50      | 1         | 19.81               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 49        | 19.75               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 49        | 19.75               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 0         | 19.79               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 12        | 19.80               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 25        | 19.72               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 50      | 0         | 19.76               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 0         | 19.78               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 25        | 19.76               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 49        | 19.72               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 0         | 19.76               |                        |                      | 21.2               | 0        |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 12        | 19.76               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 25        | 19.76               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 50      | 0         | 19.78               |                        |                      | 20                 | 1.2      |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 0         | 19.86               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 1       | 49        | 19.82               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 0         | 19.86               |                        |                      | 20                 | 1.2      |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 12        | 19.83               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 25      | 25        | 19.81               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 50      | 0         | 19.85               |                        |                      | 19.60              |          |  |  |                             |  |  |  |
| 10              | HQAM       | 50      | 0         | 19.85               |                        |                      |                    |          |  |  |                             |  |  |  |
| 10              | HQAM       | 50      | 0         | 19.85               |                        |                      |                    |          |  |  |                             |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                    |          |  |  | 2305                        |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                    |          |  |  | 19.66 <th colspan="3"></th> |  |  |  |
| 5               | QPSK       | 1       | 0         | 19.66               | 19.70                  | 19.65                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | QPSK       | 1       | 12        | 19.62               | 19.60                  | 19.60                |                    |          |  |  |                             |  |  |  |
| 5               | QPSK       | 1       | 24        | 19.60               | 19.61                  | 19.63                |                    |          |  |  |                             |  |  |  |
| 5               | QPSK       | 12      | 0         | 19.64               | 19.63                  | 19.66                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | QPSK       | 12      | 7         | 19.63               | 19.59                  | 19.62                |                    |          |  |  |                             |  |  |  |
| 5               | QPSK       | 12      | 13        | 19.65               | 19.64                  | 19.62                |                    |          |  |  |                             |  |  |  |
| 5               | QPSK       | 25      | 0         | 19.66               | 19.71                  | 19.70                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | QPSK       | 1       | 0         | 19.72               | 19.74                  | 19.72                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 12        | 19.72               | 19.69                  | 19.76                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 24        | 19.69               | 19.66                  | 19.64                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 0         | 19.67               | 19.61                  | 19.68                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 7         | 19.69               | 19.70                  | 19.75                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 13        | 19.69               | 19.66                  | 19.60                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | HQAM       | 25      | 0         | 19.64               | 19.63                  | 19.66                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 0         | 19.66               | 19.69                  | 19.71                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 12        | 19.65               | 19.73                  | 19.71                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 24        | 19.64               | 19.65                  | 19.66                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 0         | 19.65               | 19.69                  | 19.68                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 7         | 19.70               | 19.66                  | 19.66                | 21.2               | 0        |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 13        | 19.71               | 19.69                  | 19.74                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 25      | 0         | 19.71               | 19.70                  | 19.71                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 0         | 19.40               | 19.41                  | 19.44                | 20                 | 1.2      |  |  |                             |  |  |  |
| 5               | HQAM       | 1       | 24        | 19.37               | 19.43                  | 19.38                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 0         | 19.40               | 19.41                  | 19.45                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 7         | 19.43               | 19.38                  | 19.44                | 20                 | 1.2      |  |  |                             |  |  |  |
| 5               | HQAM       | 12      | 13        | 19.52               | 19.50                  | 19.58                |                    |          |  |  |                             |  |  |  |
| 5               | HQAM       | 25      | 0         | 19.44               | 19.38                  | 19.46                |                    |          |  |  |                             |  |  |  |

| Band 14_Ant 0   |            |        |           |                     |                     |                      |                    |          |  |  |
|-----------------|------------|--------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Time-up (int / dB) | MFR (dB) |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 0         |                     | 22.69               |                      | 24                 | 0        |  |  |
| 10              | QPSK       | 1      | 25        |                     | 22.76               |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 49        |                     | 22.61               |                      |                    |          |  |  |
| 10              | QPSK       | 25     | 0         |                     | 22.74               |                      | 24                 | 0        |  |  |
| 10              | QPSK       | 25     | 12        |                     | 22.73               |                      |                    |          |  |  |
| 10              | QPSK       | 25     | 25        |                     | 22.69               |                      |                    |          |  |  |
| 10              | QPSK       | 50     | 0         |                     | 22.71               |                      | 24                 | 0        |  |  |
| 10              | QPSK       | 50     | 1         |                     | 22.64               |                      |                    |          |  |  |
| 10              | QPSK       | 50     | 1         |                     | 22.63               |                      |                    |          |  |  |
| 10              | HQAM       | 1      | 49        |                     | 22.69               |                      | 24                 | 0        |  |  |
| 10              | HQAM       | 1      | 49        |                     | 22.69               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 0         |                     | 22.09               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 12        |                     | 22.14               |                      | 23                 | 1        |  |  |
| 10              | HQAM       | 25     | 25        |                     | 22.17               |                      |                    |          |  |  |
| 10              | HQAM       | 50     | 0         |                     | 22.10               |                      |                    |          |  |  |
| 10              | HQAM       | 1      | 0         |                     | 22.04               |                      | 23                 | 1        |  |  |
| 10              | HQAM       | 1      | 25        |                     | 22.05               |                      |                    |          |  |  |
| 10              | HQAM       | 1      | 49        |                     | 22.02               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 0         |                     | 21.10               |                      | 22                 | 2        |  |  |
| 10              | HQAM       | 25     | 12        |                     | 21.11               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 25        |                     | 21.11               |                      |                    |          |  |  |
| 10              | HQAM       | 50     | 0         |                     | 21.13               |                      | 20                 | 4        |  |  |
| 10              | HQAM       | 1      | 0         |                     | 19.38               |                      |                    |          |  |  |
| 10              | HQAM       | 1      | 25        |                     | 19.31               |                      |                    |          |  |  |
| 10              | HQAM       | 1      | 49        |                     | 19.35               |                      | 20                 | 4        |  |  |
| 10              | HQAM       | 25     | 0         |                     | 19.20               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 12        |                     | 19.23               |                      |                    |          |  |  |
| 10              | HQAM       | 25     | 25        |                     | 19.25               |                      | 20                 | 4        |  |  |
| 10              | HQAM       | 50     | 0         |                     | 19.17               |                      |                    |          |  |  |
| 10              | HQAM       | 50     | 0         |                     | 19.17               |                      |                    |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 5               | QPSK       | 1      | 0         | 22.61               | 22.61               | 22.64                | 24                 | 0        |  |  |
| 5               | QPSK       | 1      | 12        | 22.65               | 22.69               | 22.68                |                    |          |  |  |
| 5               | QPSK       | 1      | 24        | 22.45               | 22.52               | 22.60                |                    |          |  |  |
| 5               | QPSK       | 12     | 0         | 22.66               | 22.63               | 22.66                | 24                 | 0        |  |  |
| 5               | QPSK       | 12     | 7         | 22.61               | 22.62               | 22.68                |                    |          |  |  |
| 5               | QPSK       | 12     | 13        | 22.66               | 22.62               | 22.61                |                    |          |  |  |
| 5               | QPSK       | 25     | 0         | 22.67               | 22.68               | 22.63                | 24                 | 0        |  |  |
| 5               | HQAM       | 1      | 0         | 22.58               | 22.62               | 22.54                |                    |          |  |  |
| 5               | HQAM       | 1      | 12        | 22.60               | 22.62               | 22.59                |                    |          |  |  |
| 5               | HQAM       | 1      | 24        | 22.62               | 22.65               | 22.65                | 23                 | 1        |  |  |
| 5               | HQAM       | 12     | 0         | 22.64               | 22.64               | 21.68                |                    |          |  |  |
| 5               | HQAM       | 12     | 7         | 22.61               | 22.10               | 22.02                |                    |          |  |  |
| 5               | HQAM       | 12     | 13        | 22.10               | 22.10               | 22.13                | 23                 | 1        |  |  |
| 5               | HQAM       | 25     | 0         | 22.62               | 21.99               | 22.07                |                    |          |  |  |
| 5               | HQAM       | 1      | 0         | 21.94               | 21.98               | 21.93                |                    |          |  |  |
| 5               | HQAM       | 1      | 12        | 21.95               | 21.98               | 22.01                | 23                 | 1        |  |  |
| 5               | HQAM       | 1      | 24        | 21.96               | 21.92               | 21.97                |                    |          |  |  |
| 5               | HQAM       | 12     | 0         | 21.96               | 21.06               | 20.88                |                    |          |  |  |
| 5               | HQAM       | 12     | 7         | 21.07               | 21.06               | 21.01                | 22                 | 2        |  |  |
| 5               | HQAM       | 12     | 13        | 21.06               | 20.99               | 21.03                |                    |          |  |  |
| 5               | HQAM       | 25     | 0         | 21.02               | 21.05               | 21.06                |                    |          |  |  |
| 5               | HQAM       | 1      | 0         | 19.20               | 19.30               | 19.35                | 20                 | 4        |  |  |
| 5               | HQAM       | 1      | 12        | 19.26               | 19.26               | 19.22                |                    |          |  |  |
| 5               | HQAM       | 1      | 24        | 19.23               | 19.26               | 19.24                |                    |          |  |  |
| 5               | HQAM       | 12     | 0         | 19.13               | 19.12               | 19.11                | 20                 | 4        |  |  |
| 5               | HQAM       | 12     | 7         | 19.17               | 19.13               | 19.16                |                    |          |  |  |
| 5               | HQAM       | 12     | 13        | 19.19               | 19.15               | 19.16                |                    |          |  |  |
| 5               | HQAM       | 25     | 0         |                     |                     |                      | 20                 | 4        |  |  |
| 5               | HQAM       | 25     | 0         |                     |                     |                      |                    |          |  |  |
| 5               | HQAM       | 25     | 0         |                     |                     |                      |                    |          |  |  |



| Band 17_Ant 1 |            |        |           |                    |                     |                    |                   |          |  |
|---------------|------------|--------|-----------|--------------------|---------------------|--------------------|-------------------|----------|--|
| BW (MHz)      | Modulation | RB Sub | RB Offset | Power Lb Ch / Freq | Power Mde Ch / Freq | Power Hb Ch / Freq | Timeuse Int (dBm) | MPR (dB) |  |
| Channel       |            |        |           |                    |                     |                    |                   |          |  |
|               |            |        |           | 22780              | 22796               | 22802              |                   |          |  |
|               |            |        |           | 759                | 760                 | 761                |                   |          |  |
| 10            | QPSK       | 1      | 0         | 19.79              | 19.89               | 19.79              | 21.2              | 0        |  |
| 10            | QPSK       | 1      | 25        | 19.05              | 19.03               | 19.05              |                   |          |  |
| 10            | QPSK       | 1      | 49        | 19.90              | 19.88               | 19.90              |                   |          |  |
| 10            | QPSK       | 25     | 0         | 19.56              | 19.59               | 19.56              |                   |          |  |
| 10            | QPSK       | 25     | 12        | 19.85              | 19.92               | 19.89              |                   |          |  |
| 10            | QPSK       | 25     | 25        | 19.82              | 19.90               | 19.87              | 21.2              | 0        |  |
| 10            | QPSK       | 50     | 0         | 19.79              | 19.87               | 19.89              |                   |          |  |
| 10            | HQAM       | 1      | 0         | 19.78              | 19.87               | 19.89              |                   |          |  |
| 10            | HQAM       | 1      | 25        | 19.87              | 19.91               | 19.92              |                   |          |  |
| 10            | HQAM       | 1      | 49        | 19.83              | 19.94               | 19.91              |                   |          |  |
| 10            | HQAM       | 25     | 12        | 19.80              | 19.93               | 19.92              | 21.2              | 0        |  |
| 10            | HQAM       | 25     | 0         | 19.85              | 19.93               | 19.84              |                   |          |  |
| 10            | HQAM       | 25     | 25        | 19.82              | 19.93               | 19.89              |                   |          |  |
| 10            | HQAM       | 50     | 0         | 19.85              | 19.87               | 19.89              |                   |          |  |
| 10            | HQAM       | 1      | 25        | 19.83              | 19.88               | 19.87              |                   |          |  |
| 10            | HQAM       | 1      | 49        | 19.87              | 19.96               | 19.93              | 21.2              | 0        |  |
| 10            | HQAM       | 25     | 0         | 19.93              | 19.96               | 19.92              |                   |          |  |
| 10            | HQAM       | 25     | 12        | 19.94              | 19.95               | 19.96              |                   |          |  |
| 10            | HQAM       | 25     | 25        | 19.92              | 19.97               | 19.98              |                   |          |  |
| 10            | HQAM       | 50     | 0         | 19.94              | 19.97               | 19.97              |                   |          |  |
| 10            | HQAM       | 1      | 0         | 19.87              | 19.89               | 19.86              | 20                | 1.2      |  |
| 10            | HQAM       | 1      | 25        | 19.86              | 19.75               | 19.73              |                   |          |  |
| 10            | HQAM       | 1      | 49        | 19.86              | 19.72               | 19.70              |                   |          |  |
| 10            | HQAM       | 25     | 0         | 19.89              | 19.89               | 19.89              |                   |          |  |
| 10            | HQAM       | 25     | 12        | 19.82              | 19.79               | 19.84              |                   |          |  |
| 10            | HQAM       | 25     | 25        | 19.85              | 19.88               | 19.82              | 21.2              | 0        |  |
| 10            | HQAM       | 50     | 0         | 19.89              | 19.80               | 19.88              |                   |          |  |
| 10            | HQAM       | 1      | 0         | 19.82              | 19.87               | 19.82              |                   |          |  |
| 10            | HQAM       | 1      | 0         | 19.81              | 19.83               | 19.83              |                   |          |  |
| 10            | HQAM       | 1      | 12        | 19.82              | 19.77               | 19.80              |                   |          |  |
| 10            | HQAM       | 12     | 0         | 19.77              | 19.76               | 19.77              | 21.2              | 0        |  |
| 10            | HQAM       | 12     | 7         | 19.84              | 19.87               | 19.91              |                   |          |  |
| 10            | HQAM       | 12     | 13        | 19.80              | 19.83               | 19.87              |                   |          |  |
| 10            | HQAM       | 25     | 0         | 19.76              | 19.75               | 19.79              |                   |          |  |
| 10            | HQAM       | 1      | 24        | 19.83              | 19.86               | 19.79              |                   |          |  |
| 10            | HQAM       | 1      | 12        | 19.82              | 19.86               | 19.86              | 21.2              | 0        |  |
| 10            | HQAM       | 1      | 24        | 19.81              | 19.86               | 19.85              |                   |          |  |
| 10            | HQAM       | 12     | 0         | 19.97              | 19.94               | 19.98              |                   |          |  |
| 10            | HQAM       | 12     | 7         | 19.80              | 19.79               | 19.82              |                   |          |  |
| 10            | HQAM       | 12     | 13        | 19.83              | 19.86               | 19.78              |                   |          |  |
| 5             | HQAM       | 25     | 0         | 19.85              | 19.86               | 19.78              | 20                | 1.2      |  |
| 5             | HQAM       | 25     | 0         | 19.86              | 19.79               | 19.87              |                   |          |  |
| 5             | HQAM       | 25     | 12        | 19.85              | 19.85               | 19.81              |                   |          |  |
| 5             | HQAM       | 25     | 25        | 19.87              | 19.88               | 19.84              |                   |          |  |
| 5             | HQAM       | 50     | 0         | 19.87              | 19.84               | 19.87              |                   |          |  |

| Band 25_Ant 0   |            |        |           |                    |                     |                    |                   |          |  |  |  |  |
|-----------------|------------|--------|-----------|--------------------|---------------------|--------------------|-------------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Lb Ch / Freq | Power Mde Ch / Freq | Power Hb Ch / Freq | Timeuse Int (sec) | MPR (dB) |  |  |  |  |
| Channel         |            |        |           |                    |                     |                    |                   |          |  |  |  |  |
| Frequency (MHz) |            |        |           |                    |                     |                    |                   |          |  |  |  |  |
|                 |            |        |           | 26160              | 26160               | 26160              |                   |          |  |  |  |  |
|                 |            |        |           | 1960               | 1960                | 1960               |                   |          |  |  |  |  |
| 20              | QPSK       | 1      | 0         | 22.48              | 22.57               | 22.50              | 24                | 0        |  |  |  |  |
| 20              | QPSK       | 1      | 49        | 22.53              | 22.67               | 22.61              |                   |          |  |  |  |  |
| 20              | QPSK       | 1      | 99        | 22.47              | 22.57               | 22.50              |                   |          |  |  |  |  |
| 20              | QPSK       | 50     | 0         | 22.51              | 22.48               | 22.44              |                   |          |  |  |  |  |
| 20              | QPSK       | 50     | 24        | 22.21              | 22.22               | 22.29              |                   |          |  |  |  |  |
| 20              | QPSK       | 50     | 24        | 21.29              | 21.27               | 21.33              | 24                | 0        |  |  |  |  |
| 20              | QPSK       | 100    | 0         | 22.29              | 22.43               | 22.36              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 0         | 22.55              | 22.43               | 22.32              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 49        | 22.57              | 22.62               | 22.59              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 99        | 22.56              | 22.64               | 22.51              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 0         | 21.25              | 21.26               | 21.25              | 23                | 1        |  |  |  |  |
| 20              | HQAM       | 50     | 24        | 21.28              | 21.27               | 21.33              |                   |          |  |  |  |  |
| 20              | HQAM       | 100    | 0         | 21.40              | 21.33               | 21.44              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 0         | 21.64              | 21.78               | 21.46              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 49        | 21.65              | 21.58               | 21.86              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 99        | 21.52              | 21.52               | 21.41              | 23                | 1        |  |  |  |  |
| 20              | HQAM       | 50     | 0         | 20.31              | 20.31               | 20.24              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 24        | 20.25              | 20.35               | 20.28              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 50        | 20.30              | 20.32               | 20.31              |                   |          |  |  |  |  |
| 20              | HQAM       | 100    | 0         | 20.34              | 20.27               | 20.36              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 0         | 19.59              | 19.58               | 19.48              | 20                | 4        |  |  |  |  |
| 20              | HQAM       | 1      | 0         | 19.76              | 19.59               | 19.49              |                   |          |  |  |  |  |
| 20              | HQAM       | 1      | 49        | 19.87              | 19.81               | 19.45              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 0         | 19.25              | 19.53               | 19.35              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 24        | 19.23              | 19.47               | 19.37              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 50        | 19.26              | 19.48               | 19.37              |                   |          |  |  |  |  |
| 20              | HQAM       | 50     | 50        | 19.26              | 19.47               | 19.38              |                   |          |  |  |  |  |
| 20              | HQAM       | 100    | 0         | 19.26              | 19.38               | 19.28              |                   |          |  |  |  |  |
| Channel         |            |        |           | 26115              | 26160               | 26165              |                   |          |  |  |  |  |
|                 |            |        |           | 1975               | 1975                | 1975               |                   |          |  |  |  |  |
| 15              | QPSK       | 1      | 0         | 22.43              | 22.43               | 22.43              | 24                | 0        |  |  |  |  |
| 15              | QPSK       | 1      | 49        | 22.44              | 22.63               | 22.61              |                   |          |  |  |  |  |
| 15              | QPSK       | 1      | 99        | 22.37              | 22.49               | 22.52              |                   |          |  |  |  |  |
| 15              | QPSK       | 50     | 0         | 22.52              | 22.49               | 22.45              |                   |          |  |  |  |  |
| 15              | QPSK       | 50     | 24        | 22.21              | 22.23               | 22.25              |                   |          |  |  |  |  |
| 15              | QPSK       | 36     | 0         | 22.26              | 22.33               | 22.35              | 24                | 0        |  |  |  |  |
| 15              | QPSK       | 36     | 24        | 22.25              | 22.25               | 22.32              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 0         | 22.45              | 22.40               | 22.40              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 49        | 22.60              | 22.63               | 22.51              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 99        | 22.52              | 22.66               | 22.55              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 0         | 21.24              | 21.30               | 21.15              | 23                | 1        |  |  |  |  |
| 15              | HQAM       | 36     | 24        | 21.30              | 21.45               | 21.34              |                   |          |  |  |  |  |
| 15              | HQAM       | 75     | 0         | 21.31              | 21.20               | 21.48              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 0         | 21.54              | 21.62               | 21.53              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 49        | 21.55              | 21.55               | 21.48              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 99        | 21.17              | 21.35               | 21.26              | 23                | 1        |  |  |  |  |
| 15              | HQAM       | 36     | 0         | 20.11              | 20.22               | 20.23              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 24        | 20.13              | 20.23               | 20.23              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 50        | 20.23              | 20.33               | 20.21              |                   |          |  |  |  |  |
| 15              | HQAM       | 75     | 0         | 20.31              | 20.22               | 20.33              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 0         | 19.21              | 19.47               | 19.31              | 20                | 4        |  |  |  |  |
| 15              | HQAM       | 36     | 24        | 19.20              | 19.31               | 19.27              |                   |          |  |  |  |  |
| 15              | HQAM       | 1      | 0         | 19.31              | 19.43               | 19.46              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 0         | 19.22              | 19.48               | 19.38              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 24        | 19.10              | 19.35               | 19.24              |                   |          |  |  |  |  |
| 15              | HQAM       | 36     | 50        | 19.12              | 19.47               | 19.37              |                   |          |  |  |  |  |
| 15              | HQAM       | 75     | 0         | 19.24              | 19.34               | 19.24              |                   |          |  |  |  |  |
| Channel         |            |        |           | 26065              | 26160               | 26165              |                   |          |  |  |  |  |
|                 |            |        |           | 1985               | 1985                | 1985               |                   |          |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 22.39              | 22.39               | 22.39              | 24                | 0        |  |  |  |  |
| 10              | QPSK       | 1      | 49        | 22.53              | 22.65               | 22.69              |                   |          |  |  |  |  |
| 10              | QPSK       | 1      | 99        | 22.37              | 22.33               | 22.34              |                   |          |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 22.52              | 22.49               | 22.49              |                   |          |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 22.21              | 22.23               | 22.25              |                   |          |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 22.22              | 22.37               | 22.21              | 24                | 0        |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 22.22              | 22.37               | 22.21              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 0         | 22.45              | 22.25               | 22.25              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 25        | 22.62              | 22.58               | 22.61              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 50        | 22.65              | 22.66               | 22.62              |                   |          |  |  |  |  |
| 10              | HQAM       | 25     | 0         | 21.16              | 21.22               | 21.22              | 23                | 1        |  |  |  |  |
| 10              | HQAM       | 25     | 12        | 21.23              | 21.44               | 21.25              |                   |          |  |  |  |  |
| 10              | HQAM       | 50     | 0         | 21.28              | 21.31               | 21.29              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 0         | 21.53              | 21.71               | 21.47              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 49        | 21.56              | 21.56               | 21.48              |                   |          |  |  |  |  |
| 10              | HQAM       | 25     | 0         | 20.13              | 20.17               | 20.24              | 22                | 2        |  |  |  |  |
| 10              | HQAM       | 25     | 12        | 20.13              | 20.23               | 20.23              |                   |          |  |  |  |  |
| 10              | HQAM       | 25     | 25        | 20.13              | 20.26               | 20.24              |                   |          |  |  |  |  |
| 10              | HQAM       | 50     | 0         | 20.19              | 20.24               | 20.31              |                   |          |  |  |  |  |
| 10              | HQAM       | 50     | 25        | 20.19              | 20.24               | 20.31              |                   |          |  |  |  |  |
| 10              | HQAM       | 1      | 0         | 19.12              | 19.25               | 19.26              | 20                | 4        |  |  |  |  |
| 10              | HQAM       | 1      | 25        | 19.22              | 19.54               | 19.35              |                   |          |  |  |  |  |
| 10              | HQAM       | 25     | 12        | 19.12              | 19.51               | 19.37              |                   |          |  |  |  |  |
| 10              | HQAM       | 25     | 25        | 19.20              | 19.44               | 19.37              |                   |          |  |  |  |  |
| 10              | HQAM       | 50     | 0         | 19.25              | 19.42               | 19.32              |                   |          |  |  |  |  |
| Channel         |            |        |           | 26065              | 26160               | 26165              |                   |          |  |  |  |  |
|                 |            |        |           | 1995               | 1995                | 1995               |                   |          |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 22.42              | 22.60               | 22.62              | 24                | 0        |  |  |  |  |
| 5               | QPSK       | 1      | 12        | 22.46              | 22.61               | 22.63              |                   |          |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.45              | 22.36               | 22.33              |                   |          |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 22.21              | 22.48               | 22.29              |                   |          |  |  |  |  |
| 5               | QPSK       | 12     | 12        | 22.21              | 22.41               | 22.21              |                   |          |  |  |  |  |
| 5               | QPSK       | 12     | 13        | 22.12              | 22.33               | 22.33              | 24                | 0        |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 22.32              | 22.33               | 22.33              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 0         | 22.57              | 22.55               | 22.25              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 12        | 22.62              | 22.58               | 22.49              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 24        | 22.51              | 22.49               | 22.39              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 0         | 21.13              | 21.11               | 21.19              | 23                | 1        |  |  |  |  |
| 5               | HQAM       | 12     | 7         | 21.34              | 21.48               | 21.37              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 13        | 21.33              | 21.44               | 21.33              |                   |          |  |  |  |  |
| 5               | HQAM       | 25     | 0         | 21.41              | 21.30               | 21.54              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 0         | 21.64              | 21.75               | 21.54              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 12        | 21.53              | 21.53               | 21.54              | 23                | 1        |  |  |  |  |
| 5               | HQAM       | 1      | 24        | 21.32              | 21.20               | 21.27              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 0         | 20.17              | 20.26               | 20.27              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 7         | 20.17              | 20.26               | 20.27              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 13        | 20.13              | 20.26               | 20.18              |                   |          |  |  |  |  |
| 5               | HQAM       | 25     | 0         | 20.36              | 20.29               | 20.22              | 22                | 2        |  |  |  |  |
| 5               | HQAM       | 25     | 7         | 20.36              | 20.29               | 20.22              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 0         | 19.12              | 19.41               | 19.33              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 12        | 19.12              | 19.41               | 19.33              |                   |          |  |  |  |  |
| 5               | HQAM       | 1      | 24        | 19.23              | 19.55               | 19.32              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 0         | 19.25              | 19.44               | 19.34              | 20                | 4        |  |  |  |  |
| 5               | HQAM       | 12     | 7         | 19.09              | 19.49               | 19.38              |                   |          |  |  |  |  |
| 5               | HQAM       | 12     | 13        | 19.22              | 19.46               | 19.36              |                   |          |  |  |  |  |
| 5               | HQAM       | 25     | 0         | 19.22              | 19.46               | 19.36              |                   |          |  |  |  |  |
| 5               | HQAM       | 25     | 7         | 19.22              | 19.46               | 19.36              |                   |          |  |  |  |  |
| Channel         |            |        |           | 26055              | 26160               | 26165              |                   |          |  |  |  |  |
|                 |            |        |           | 1995               | 1995                | 1995               |                   |          |  |  |  |  |
| 3               | QPSK       | 1      | 0         | 22.45              | 22.59               | 22.62              | 24                | 0        |  |  |  |  |
| 3               | QPSK       | 1      | 12        | 22.46              | 22.61               | 22.63              |                   |          |  |  |  |  |
| 3               | QPSK       | 1      | 14        | 22.34              | 22.34               | 22.49              |                   |          |  |  |  |  |
| 3               | QPSK       | 12     | 0         | 22.17              | 22.42               | 22.26              |                   |          |  |  |  |  |
| 3               | QPSK       | 12     | 12        | 22.17              | 22.42               | 22.26              |                   |          |  |  |  |  |
| 3               | QPSK       | 8      | 7         | 22.16              | 22.37               | 22.38              | 24                | 0        |  |  |  |  |
| 3               | QPSK       | 12     | 0         | 22.17              | 22.37               | 22.38              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 0         | 22.61              | 22.42               | 22.41              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 8         | 22.65              | 22.47               | 22.48              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 14        | 22.51              | 22.49               | 22.41              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 4         | 21.25              | 21.39               | 21.39              | 23                | 1        |  |  |  |  |
| 3               | HQAM       | 8      | 7         | 21.25              | 21.39               | 21.39              |                   |          |  |  |  |  |
| 3               | HQAM       | 14     | 0         | 21.31              | 21.12               | 21.17              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 0         | 21.61              | 21.75               | 21.45              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 14        | 21.67              | 21.67               | 21.45              |                   |          |  |  |  |  |
| 3               | HQAM       | 14     | 0         | 21.26              | 21.28               | 21.43              | 22                | 2        |  |  |  |  |
| 3               | HQAM       | 8      | 0         | 20.25              | 20.16               | 20.14              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 7         | 20.25              | 20.16               | 20.14              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 7         | 20.06              | 20.10               | 20.12              |                   |          |  |  |  |  |
| 3               | HQAM       | 15     | 0         | 20.19              | 20.19               | 20.29              |                   |          |  |  |  |  |
| 3               | HQAM       | 1      | 0         | 19.10              | 19.39               | 19.32              | 20                | 4        |  |  |  |  |
| 3               | HQAM       | 1      | 14        | 19.14              | 19.39               | 19.31              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 0         | 19.14              | 19.39               | 19.31              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 7         | 19.10              | 19.34               | 19.22              |                   |          |  |  |  |  |
| 3               | HQAM       | 8      | 7         | 19.10              | 19.34               | 19.22              |                   |          |  |  |  |  |
| Channel         |            |        |           | 26047              | 26160               | 26165              |                   |          |  |  |  |  |
|                 |            |        |           | 1995               | 1995                | 1995               |                   |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.43              | 22.61               | 22.62              | 24                | 0        |  |  |  |  |
| 1.4             | QPSK       | 1      | 12        | 22.44              | 22.64               | 22.63              |                   |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 5         | 22.45              | 22.41               | 22.28              |                   |          |  |  |  |  |
| 1.4             | QPSK       | 8      | 0         | 22.16              | 22.47               | 22.29              |                   |          |  |  |  |  |
| 1.4             | QPSK       | 8      | 12        | 22.16              | 22.22               | 22.22              |                   |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 3         | 22.24              | 22.30               | 22.36              | 24                | 0        |  |  |  |  |
| 1.4             | HQAM       | 1      | 0         | 22.33              | 22.33               | 22.33              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 1      | 3         | 22.29              | 22.29               | 22.29              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.49              | 22.59               | 22.62              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.43              | 22.51               | 22.43              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.43              | 22.53               | 22.43              | 23                | 1        |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.48              | 22.66               | 22.61              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.48              | 22.66               | 22.61              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 21.35              | 21.35               | 21.33              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 21.66              | 21.64               | 21.48              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 21.66              | 21.64               | 21.48              | 23                | 1        |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 21.32              | 21.23               | 21.27              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 21.26              | 21.10               | 21.33              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 8      | 0         | 20.31              | 20.21               | 20.37              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 8      | 0         | 20.31              | 20.21               | 20.37              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 19.09              | 19.34               | 19.37              | 20                | 4        |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 19.27              | 19.38               | 19.48              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 19.27              | 19.38               | 19.48              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.25              | 18.45               | 18.27              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.27              | 18.45               | 18.27              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.27              | 18.45               | 18.27              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.25              | 18.45               | 18.27              |                   |          |  |  |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.17              | 18.49               | 18.41              | 20                |          |  |  |  |  |

| Band 26(FCC)_Ant 1 |            |           |              |                           |                              |                            |                      |             |       |  |       |       |  |
|--------------------|------------|-----------|--------------|---------------------------|------------------------------|----------------------------|----------------------|-------------|-------|--|-------|-------|--|
| WV<br>(MHz)        | Modulation | RE<br>Bin | RB<br>Offset | Power<br>Low<br>Ch / Freq | Power<br>Middle<br>Ch / Freq | Power<br>High<br>Ch / Freq | Time-up<br>int (sec) | MPR<br>(dB) |       |  |       |       |  |
| Channel            |            |           |              |                           |                              |                            | 26765                | 26865       | 26965 |  |       |       |  |
| Frequency (MHz)    |            |           |              |                           |                              |                            | 26765                | 26865       | 26965 |  |       |       |  |
| 15                 | QPSK       | 1         | 0            | 19.54                     | 19.60                        | 19.57                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | QPSK       | 1         | 37           | 19.74                     | 19.78                        | 19.70                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 1         | 74           | 19.45                     | 19.58                        | 19.55                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 36        | 0            | 19.65                     | 19.71                        | 19.58                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 36        | 20           | 19.54                     | 19.58                        | 19.54                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 36        | 39           | 19.45                     | 19.54                        | 19.51                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | QPSK       | 75        | 0            | 19.53                     | 19.59                        | 19.51                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 0            | 19.51                     | 19.57                        | 19.55                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 37           | 19.55                     | 19.58                        | 19.50                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 74           | 19.52                     | 19.60                        | 19.58                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 36        | 0            | 19.54                     | 19.55                        | 19.45                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | HQDM       | 36        | 20           | 19.55                     | 19.61                        | 19.60                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 36        | 39           | 19.59                     | 19.61                        | 19.52                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 75        | 0            | 19.55                     | 19.60                        | 19.54                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 0            | 19.52                     | 19.61                        | 19.53                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 37           | 19.55                     | 19.61                        | 19.55                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | HQDM       | 1         | 74           | 19.52                     | 19.58                        | 19.50                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 36        | 0            | 19.52                     | 19.55                        | 19.47                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 36        | 20           | 19.50                     | 19.57                        | 19.50                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 36        | 39           | 19.49                     | 19.59                        | 19.52                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 75        | 0            | 19.52                     | 19.57                        | 19.49                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 0            | 19.40                     | 19.42                        | 19.39                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 37           | 19.52                     | 19.66                        | 19.52                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 74           | 19.75                     | 19.82                        | 19.74                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 36        | 0            | 19.37                     | 19.45                        | 19.42                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 36        | 20           | 19.48                     | 19.56                        | 19.52                      | 20                   | 0.0         |       |  |       |       |  |
| 15                 | SSBQAM     | 36        | 39           | 19.53                     | 19.55                        | 19.48                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 75        | 0            | 19.51                     | 19.58                        | 19.52                      |                      |             |       |  |       |       |  |
| Channel            |            |           |              |                           |                              |                            | 26740                |             |       |  | 26865 | 26965 |  |
| Frequency (MHz)    |            |           |              |                           |                              |                            | 26740                |             |       |  | 26865 | 26965 |  |
| 15                 | QPSK       | 1         | 0            | 19.52                     | 19.50                        | 19.48                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | QPSK       | 1         | 25           | 19.65                     | 19.65                        | 19.62                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 1         | 49           | 19.53                     | 19.48                        | 19.48                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 25        | 0            | 19.60                     | 19.60                        | 19.62                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 25        | 12           | 19.48                     | 19.48                        | 19.48                      |                      |             |       |  |       |       |  |
| 15                 | QPSK       | 25        | 25           | 19.47                     | 19.47                        | 19.47                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | QPSK       | 50        | 0            | 19.49                     | 19.41                        | 19.46                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 0            | 19.45                     | 19.50                        | 19.45                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 25           | 19.45                     | 19.47                        | 19.45                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 49           | 19.49                     | 19.56                        | 19.51                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 25        | 0            | 19.37                     | 19.36                        | 19.37                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | HQDM       | 25        | 12           | 19.37                     | 19.37                        | 19.54                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 25        | 25           | 19.50                     | 19.43                        | 19.50                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 50        | 0            | 19.55                     | 19.52                        | 19.47                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 0            | 19.49                     | 19.50                        | 19.47                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 1         | 25           | 19.45                     | 19.52                        | 19.47                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | HQDM       | 49        | 0            | 19.47                     | 19.47                        | 19.49                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 25        | 0            | 19.39                     | 19.37                        | 19.37                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 25        | 12           | 19.49                     | 19.47                        | 19.46                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 25        | 25           | 19.45                     | 19.44                        | 19.48                      |                      |             |       |  |       |       |  |
| 15                 | HQDM       | 50        | 0            | 19.45                     | 19.39                        | 19.47                      | 20.0                 | 0           |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 0            | 19.37                     | 19.33                        | 19.25                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 49           | 19.54                     | 19.59                        | 19.50                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 1         | 49           | 19.54                     | 19.75                        | 19.65                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 25        | 0            | 19.50                     | 19.39                        | 19.32                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 25        | 12           | 19.37                     | 19.44                        | 19.44                      | 20                   | 0.0         |       |  |       |       |  |
| 15                 | SSBQAM     | 25        | 25           | 19.47                     | 19.45                        | 19.45                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 25        | 25           | 19.47                     | 19.45                        | 19.43                      |                      |             |       |  |       |       |  |
| 15                 | SSBQAM     | 50        | 0            | 19.48                     | 19.51                        | 19.49                      |                      |             |       |  |       |       |  |
| Channel            |            |           |              |                           |                              |                            | 26775                |             |       |  | 26865 | 27075 |  |
| Frequency (MHz)    |            |           |              |                           |                              |                            | 26775                |             |       |  | 26865 | 27075 |  |
| 5                  | QPSK       | 1         | 0            | 19.55                     | 19.54                        | 19.47                      | 20.0                 | 0           |       |  |       |       |  |
| 5                  | QPSK       | 1         | 12           | 19.62                     | 19.68                        | 19.68                      |                      |             |       |  |       |       |  |
| 5                  | QPSK       | 1         | 24           | 19.47                     | 19.52                        | 19.49                      |                      |             |       |  |       |       |  |
| 5                  | QPSK       | 12        | 0            | 19.60                     | 19.60                        | 19.65                      |                      |             |       |  |       |       |  |
| 5                  | QPSK       | 12        | 7            | 19.51                     | 19.45                        | 19.52                      |                      |             |       |  |       |       |  |
| 5                  | QPSK       | 12        | 13           | 19.49                     | 19.46                        | 19.49                      | 20.0                 | 0           |       |  |       |       |  |
| 5                  | QPSK       | 25        | 0            | 19.49                     | 19.41                        | 19.45                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 1         | 0            | 19.50                     | 19.52                        | 19.49                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 1         | 12           | 19.43                     | 19.43                        | 19.45                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 1         | 24           | 19.49                     | 19.55                        | 19.55                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 12        | 0            | 19.35                     | 19.43                        | 19.38                      | 20.0                 | 0           |       |  |       |       |  |
| 5                  | HQDM       | 12        | 7            | 19.51                     | 19.59                        | 19.50                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 12        | 13           | 19.40                     | 19.43                        | 19.45                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 25        | 0            | 19.45                     | 19.52                        | 19.50                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 1         | 0            | 19.50                     | 19.45                        | 19.45                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 1         | 12           | 19.51                     | 19.48                        | 19.48                      | 20.0                 | 0           |       |  |       |       |  |
| 5                  | HQDM       | 1         | 24           | 19.48                     | 19.41                        | 19.49                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 12        | 0            | 19.49                     | 19.42                        | 19.41                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 12        | 7            | 19.42                     | 19.45                        | 19.42                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 12        | 13           | 19.47                     | 19.51                        | 19.48                      |                      |             |       |  |       |       |  |
| 5                  | HQDM       | 25        | 0            | 19.44                     | 19.46                        | 19.40                      | 20.0                 | 0           |       |  |       |       |  |
| 5                  | SSBQAM     | 1         | 0            | 19.50                     | 19.39                        | 19.32                      |                      |             |       |  |       |       |  |
| 5                  | SSBQAM     | 1         | 12           | 19.56                     | 19.54                        | 19.54                      |                      |             |       |  |       |       |  |
| 5                  | SSBQAM     | 1         | 24           | 19.53                     | 19.75                        | 19.54                      |                      |             |       |  |       |       |  |
| 5                  | SSBQAM     | 12        | 0            | 19.29                     | 19.41                        | 19.34                      |                      |             |       |  |       |       |  |
| 5                  | SSBQAM     | 12        | 7            | 19.49                     | 19.44                        | 19.44                      | 20                   | 0.0         |       |  |       |       |  |
| 5                  | SSBQAM     | 12        | 13           | 19.45                     | 19.45                        | 19.38                      |                      |             |       |  |       |       |  |
| 5                  | SSBQAM     | 25        | 0            | 19.45                     | 19.49                        | 19.49                      |                      |             |       |  |       |       |  |
| Channel            |            |           |              |                           |                              |                            | 26795                |             |       |  | 26865 | 27075 |  |
| Frequency (MHz)    |            |           |              |                           |                              |                            | 26795                |             |       |  | 26865 | 27075 |  |
| 3                  | QPSK       | 1         | 0            | 19.49                     | 19.49                        | 19.50                      | 20.0                 |             |       |  | 0     |       |  |
| 3                  | QPSK       | 1         | 8            | 19.62                     | 19.61                        | 19.68                      |                      |             |       |  |       |       |  |
| 3                  | QPSK       | 1         | 14           | 19.51                     | 19.45                        | 19.45                      |                      |             |       |  |       |       |  |
| 3                  | QPSK       | 8         | 0            | 19.59                     | 19.66                        | 19.63                      |                      |             |       |  |       |       |  |
| 3                  | QPSK       | 8         | 4            | 19.48                     | 19.53                        | 19.49                      |                      |             |       |  |       |       |  |
| 3                  | QPSK       | 8         | 7            | 19.45                     | 19.47                        | 19.50                      | 20.0                 | 0           |       |  |       |       |  |
| 3                  | QPSK       | 15        | 0            | 19.43                     | 19.42                        | 19.41                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 0            | 19.50                     | 19.50                        | 19.49                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 8            | 19.43                     | 19.41                        | 19.44                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 14           | 19.53                     | 19.67                        | 19.56                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 8         | 0            | 19.39                     | 19.44                        | 19.36                      | 20.0                 | 0           |       |  |       |       |  |
| 3                  | HQDM       | 8         | 4            | 19.54                     | 19.52                        | 19.63                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 8         | 7            | 19.42                     | 19.46                        | 19.46                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 15        | 0            | 19.53                     | 19.47                        | 19.45                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 0            | 19.43                     | 19.43                        | 19.45                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 8            | 19.49                     | 19.53                        | 19.52                      | 20.0                 | 0           |       |  |       |       |  |
| 3                  | HQDM       | 14        | 0            | 19.44                     | 19.47                        | 19.42                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 8         | 0            | 19.45                     | 19.40                        | 19.40                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 8         | 4            | 19.41                     | 19.43                        | 19.41                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 1         | 7            | 19.45                     | 19.44                        | 19.47                      |                      |             |       |  |       |       |  |
| 3                  | HQDM       | 15        | 0            | 19.44                     | 19.44                        | 19.44                      | 20.0                 | 0           |       |  |       |       |  |
| 3                  | SSBQAM     | 1         | 0            | 19.37                     | 19.37                        | 19.31                      |                      |             |       |  |       |       |  |
| 3                  | SSBQAM     | 1         | 8            | 19.59                     | 19.60                        | 19.56                      |                      |             |       |  |       |       |  |
| 3                  | SSBQAM     | 1         | 14           | 19.65                     | 19.77                        | 19.68                      |                      |             |       |  |       |       |  |
| 3                  | SSBQAM     | 8         | 0            | 19.34                     | 19.41                        | 19.36                      |                      |             |       |  |       |       |  |
| 3                  | SSBQAM     | 8         | 4            | 19.37                     | 19.42                        | 19.42                      | 20                   | 0.0         |       |  |       |       |  |
| 3                  | SSBQAM     | 8         | 7            | 19.45                     | 19.47                        | 19.40                      |                      |             |       |  |       |       |  |



| Band 30_Ant 1   |            |         |           |                     |                   |                   |             |          |       |
|-----------------|------------|---------|-----------|---------------------|-------------------|-------------------|-------------|----------|-------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Lch / Ch Freq | Power Mch Ch Freq | Power Hch Ch Freq | Tauapm (ms) | MPR (dB) |       |
| Channel         |            |         |           |                     |                   |                   | 27710       |          |       |
| Frequency (MHz) |            |         |           |                     |                   |                   |             |          |       |
| 10              | QPSK       | 1       | 0         | 14.80               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 25        | 14.81               |                   |                   |             |          |       |
| 10              | QPSK       | 1       | 49        | 14.83               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 25      | 0         | 14.80               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 12        | 14.80               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 25      | 25        | 14.82               |                   |                   |             |          |       |
| 10              | QPSK       | 50      | 0         | 14.80               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 0         | 14.83               |                   |                   |             |          |       |
| 10              | QPSK       | 1       | 25        | 14.82               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 49        | 14.81               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 0         | 14.84               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 25      | 25        | 14.83               |                   |                   |             |          |       |
| 10              | QPSK       | 50      | 0         | 14.78               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 0         | 14.84               |                   |                   |             |          |       |
| 10              | QPSK       | 1       | 25        | 14.82               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 49        | 14.83               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 0         | 14.85               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 25      | 12        | 14.79               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 25        | 14.84               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 50      | 0         | 14.78               |                   |                   |             |          |       |
| 10              | QPSK       | 1       | 0         | 14.86               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 1       | 49        | 14.81               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 0         | 14.87               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 25      | 12        | 14.81               |                   |                   |             |          |       |
| 10              | QPSK       | 25      | 25        | 14.85               |                   |                   | 16.4        | 0        |       |
| 10              | QPSK       | 50      | 0         | 14.85               |                   |                   |             |          |       |
| Channel         |            |         |           |                     |                   |                   | 27685       | 27710    | 27735 |
| Frequency (MHz) |            |         |           |                     |                   |                   |             |          |       |
| 5               | QPSK       | 1       | 0         | 14.78               | 14.79             | 14.78             | 16.4        | 0        |       |
| 5               | QPSK       | 1       | 12        | 14.87               | 14.81             | 14.90             |             |          |       |
| 5               | QPSK       | 1       | 24        | 14.80               | 14.77             | 14.79             | 16.4        | 0        |       |
| 5               | QPSK       | 12      | 0         | 14.88               | 14.86             | 14.81             |             |          |       |
| 5               | QPSK       | 12      | 7         | 14.71               | 14.70             | 14.72             | 16.4        | 0        |       |
| 5               | QPSK       | 12      | 13        | 14.76               | 14.76             | 14.79             |             |          |       |
| 5               | QPSK       | 25      | 0         | 14.81               | 14.78             | 14.80             | 16.4        | 0        |       |
| 5               | HQAM       | 1       | 0         | 14.74               | 14.76             | 14.76             |             |          |       |
| 5               | HQAM       | 1       | 12        | 14.81               | 14.72             | 14.81             | 16.4        | 0        |       |
| 5               | HQAM       | 1       | 24        | 14.84               | 14.80             | 14.83             |             |          |       |
| 5               | HQAM       | 12      | 0         | 14.80               | 14.75             | 14.79             | 16.4        | 0        |       |
| 5               | HQAM       | 12      | 7         | 14.81               | 14.79             | 14.82             |             |          |       |
| 5               | HQAM       | 12      | 13        | 14.80               | 14.76             | 14.79             | 16.4        | 0        |       |
| 5               | HQAM       | 25      | 0         | 14.70               | 14.71             | 14.74             |             |          |       |
| 5               | HQAM       | 1       | 0         | 14.74               | 14.79             | 14.79             | 16.4        | 0        |       |
| 5               | HQAM       | 1       | 12        | 14.81               | 14.83             | 14.81             |             |          |       |
| 5               | HQAM       | 12      | 0         | 14.76               | 14.77             | 14.72             | 16.4        | 0        |       |
| 5               | HQAM       | 12      | 7         | 14.69               | 14.77             | 14.73             |             |          |       |
| 5               | HQAM       | 12      | 13        | 14.78               | 14.78             | 14.74             | 16.4        | 0        |       |
| 5               | HQAM       | 25      | 0         | 14.80               | 14.77             | 14.80             |             |          |       |
| 5               | HQAM       | 1       | 0         | 14.82               | 14.77             | 14.85             | 16.4        | 0        |       |
| 5               | HQAM       | 1       | 12        | 14.79               | 14.77             | 14.80             |             |          |       |
| 5               | HQAM       | 1       | 24        | 14.76               | 14.77             | 14.77             | 16.4        | 0        |       |
| 5               | HQAM       | 12      | 0         | 14.78               | 14.85             | 14.86             |             |          |       |
| 5               | HQAM       | 12      | 7         | 14.85               | 14.80             | 14.85             | 16.4        | 0        |       |
| 5               | HQAM       | 12      | 13        | 14.82               | 14.76             | 14.81             |             |          |       |
| 5               | HQAM       | 25      | 0         | 14.81               | 14.84             | 14.83             | 16.4        | 0        |       |
| 5               | HQAM       | 25      | 0         | 14.81               | 14.84             | 14.83             |             |          |       |

| Band 66_Ant 0 |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
|---------------|------------|--------|-----------|------------------|---------------------|---------------------|-------------|----------|----|---|--|--|--|
| BW (MHz)      | Modulation | RB Sub | RB Offset | Power Lch / Freq | Power Mch Ch / Freq | Power Hch Ch / Freq | Tauapm (ms) | MPR (dB) |    |   |  |  |  |
| Channel 1     |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
| Channel       |            |        |           | 130072           | 130022              | 130072              |             |          |    |   |  |  |  |
| 20            | QPSK       | 1      | 0         | 22.79            | 22.79               | 22.79               | 24          | 0        |    |   |  |  |  |
| 20            | QPSK       | 1      | 49        | 22.81            | 22.89               | 22.89               |             |          |    |   |  |  |  |
| 20            | QPSK       | 1      | 99        | 22.79            | 22.73               | 22.87               | 24          | 0        |    |   |  |  |  |
| 20            | QPSK       | 50     | 0         | 22.77            | 22.85               | 22.86               |             |          |    |   |  |  |  |
| 20            | QPSK       | 50     | 24        | 22.79            | 22.74               | 22.80               | 24          | 0        |    |   |  |  |  |
| 20            | QPSK       | 50     | 24        | 22.78            | 22.80               | 22.78               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 0         | 22.81            | 22.72               | 22.78               | 24          | 0        |    |   |  |  |  |
| 20            | HQAM       | 1      | 49        | 22.80            | 22.85               | 22.83               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 99        | 22.79            | 22.79               | 22.86               | 24          | 0        |    |   |  |  |  |
| 20            | HQAM       | 50     | 0         | 21.83            | 21.89               | 21.89               |             |          |    |   |  |  |  |
| 20            | HQAM       | 50     | 24        | 21.80            | 21.86               | 21.87               | 23          | 1        |    |   |  |  |  |
| 20            | HQAM       | 100    | 0         | 21.83            | 21.87               | 21.83               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 0         | 21.90            | 22.08               | 22.00               | 23          | 1        |    |   |  |  |  |
| 20            | HQAM       | 1      | 49        | 21.90            | 21.94               | 22.03               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 99        | 21.97            | 22.01               | 21.80               | 23          | 1        |    |   |  |  |  |
| 20            | HQAM       | 50     | 0         | 20.77            | 20.93               | 20.88               |             |          |    |   |  |  |  |
| 20            | HQAM       | 50     | 24        | 20.80            | 20.87               | 20.94               | 22          | 2        |    |   |  |  |  |
| 20            | HQAM       | 100    | 0         | 20.83            | 20.86               | 20.88               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 0         | 18.52            | 18.53               | 18.46               | 20          | 4        |    |   |  |  |  |
| 20            | HQAM       | 1      | 49        | 18.50            | 18.53               | 18.28               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 99        | 18.51            | 18.54               | 18.58               | 20          | 4        |    |   |  |  |  |
| 20            | HQAM       | 50     | 0         | 18.51            | 18.52               | 18.46               |             |          |    |   |  |  |  |
| 20            | HQAM       | 50     | 24        | 18.48            | 18.48               | 18.58               | 20          | 4        |    |   |  |  |  |
| 20            | HQAM       | 100    | 0         | 18.56            | 18.60               | 18.58               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 0         | 18.56            | 18.61               | 18.58               | 20          | 4        |    |   |  |  |  |
| 20            | HQAM       | 1      | 49        | 18.52            | 18.53               | 18.46               |             |          |    |   |  |  |  |
| 20            | HQAM       | 1      | 99        | 18.50            | 18.53               | 18.28               | 20          | 4        |    |   |  |  |  |
| 20            | HQAM       | 50     | 0         | 18.51            | 18.52               | 18.46               |             |          |    |   |  |  |  |
| 20            | HQAM       | 50     | 24        | 18.48            | 18.48               | 18.58               | 20          | 4        |    |   |  |  |  |
| Channel 2     |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
| Channel       |            |        |           | 130047           | 130022              | 130097              |             |          |    |   |  |  |  |
| 15            | QPSK       | 1      | 0         | 22.72            | 22.70               | 22.73               |             |          | 24 | 0 |  |  |  |
| 15            | QPSK       | 1      | 37        | 22.71            | 22.78               | 22.78               |             |          |    |   |  |  |  |
| 15            | QPSK       | 1      | 74        | 22.81            | 22.76               | 22.79               | 24          | 0        |    |   |  |  |  |
| 15            | QPSK       | 36     | 0         | 22.68            | 22.77               | 22.71               |             |          |    |   |  |  |  |
| 15            | QPSK       | 36     | 20        | 22.69            | 22.70               | 22.68               | 24          | 0        |    |   |  |  |  |
| 15            | QPSK       | 36     | 36        | 22.68            | 22.69               | 22.68               | 24          | 0        |    |   |  |  |  |
| 15            | QPSK       | 36     | 52        | 22.69            | 22.72               | 22.74               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 0         | 22.76            | 22.67               | 22.72               | 24          | 0        |    |   |  |  |  |
| 15            | HQAM       | 1      | 49        | 22.75            | 22.76               | 22.82               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 99        | 22.76            | 22.73               | 22.72               | 24          | 0        |    |   |  |  |  |
| 15            | HQAM       | 50     | 0         | 21.82            | 21.89               | 21.89               |             |          |    |   |  |  |  |
| 15            | HQAM       | 50     | 24        | 21.79            | 21.86               | 21.87               | 23          | 1        |    |   |  |  |  |
| 15            | HQAM       | 100    | 0         | 21.77            | 21.78               | 21.82               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 0         | 21.86            | 21.86               | 21.87               | 23          | 1        |    |   |  |  |  |
| 15            | HQAM       | 1      | 37        | 21.79            | 21.75               | 21.81               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 74        | 21.87            | 21.78               | 21.72               | 23          | 1        |    |   |  |  |  |
| 15            | HQAM       | 36     | 0         | 21.77            | 21.78               | 21.82               |             |          |    |   |  |  |  |
| 15            | HQAM       | 36     | 20        | 20.79            | 20.84               | 20.85               | 22          | 2        |    |   |  |  |  |
| 15            | HQAM       | 36     | 36        | 20.78            | 20.79               | 20.83               |             |          |    |   |  |  |  |
| 15            | HQAM       | 36     | 52        | 20.79            | 20.81               | 20.84               | 22          | 2        |    |   |  |  |  |
| 15            | HQAM       | 50     | 0         | 18.40            | 18.40               | 18.40               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 0         | 18.40            | 18.40               | 18.40               | 20          | 4        |    |   |  |  |  |
| 15            | HQAM       | 1      | 37        | 18.19            | 18.23               | 18.20               |             |          |    |   |  |  |  |
| 15            | HQAM       | 1      | 74        | 18.21            | 18.26               | 18.48               | 20          | 4        |    |   |  |  |  |
| 15            | HQAM       | 36     | 0         | 18.40            | 18.40               | 18.40               |             |          |    |   |  |  |  |
| 15            | HQAM       | 36     | 20        | 18.40            | 18.40               | 18.43               | 20          | 4        |    |   |  |  |  |
| 15            | HQAM       | 36     | 36        | 18.40            | 18.40               | 18.43               |             |          |    |   |  |  |  |
| 15            | HQAM       | 36     | 52        | 18.40            | 18.40               | 18.43               | 20          | 4        |    |   |  |  |  |
| 15            | HQAM       | 50     | 0         | 18.53            | 18.52               | 18.46               |             |          |    |   |  |  |  |
| 15            | HQAM       | 50     | 24        | 18.51            | 18.54               | 18.54               | 20          | 4        |    |   |  |  |  |
| 15            | HQAM       | 75     | 0         | 18.53            | 18.51               | 18.54               |             |          |    |   |  |  |  |
| Channel 3     |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
| Channel       |            |        |           | 130022           | 130022              | 130022              |             |          |    |   |  |  |  |
| 10            | QPSK       | 1      | 0         | 22.73            | 22.73               | 22.73               | 24          | 0        |    |   |  |  |  |
| 10            | QPSK       | 1      | 29        | 22.73            | 22.81               | 22.82               |             |          |    |   |  |  |  |
| 10            | QPSK       | 1      | 49        | 22.83            | 22.79               | 22.82               | 24          | 0        |    |   |  |  |  |
| 10            | QPSK       | 1      | 74        | 22.89            | 22.79               | 22.79               |             |          |    |   |  |  |  |
| 10            | QPSK       | 25     | 12        | 22.68            | 22.71               | 22.72               | 24          | 0        |    |   |  |  |  |
| 10            | QPSK       | 25     | 29        | 22.69            | 22.72               | 22.69               |             |          |    |   |  |  |  |
| 10            | QPSK       | 25     | 44        | 22.70            | 22.73               | 22.68               | 24          | 0        |    |   |  |  |  |
| 10            | QPSK       | 25     | 59        | 22.70            | 22.73               | 22.68               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 0         | 22.73            | 22.63               | 22.68               | 24          | 0        |    |   |  |  |  |
| 10            | HQAM       | 1      | 29        | 22.88            | 22.80               | 22.72               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 49        | 22.87            | 22.80               | 22.74               | 24          | 0        |    |   |  |  |  |
| 10            | HQAM       | 25     | 0         | 21.77            | 21.74               | 21.77               |             |          |    |   |  |  |  |
| 10            | HQAM       | 25     | 12        | 21.79            | 21.76               | 21.80               | 23          | 1        |    |   |  |  |  |
| 10            | HQAM       | 25     | 29        | 21.77            | 21.76               | 21.81               |             |          |    |   |  |  |  |
| 10            | HQAM       | 50     | 0         | 21.71            | 21.76               | 21.71               | 23          | 1        |    |   |  |  |  |
| 10            | HQAM       | 50     | 12        | 21.71            | 21.76               | 21.75               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 0         | 21.84            | 21.89               | 21.90               | 23          | 1        |    |   |  |  |  |
| 10            | HQAM       | 1      | 29        | 21.89            | 21.89               | 21.89               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 49        | 21.94            | 21.91               | 21.93               | 23          | 1        |    |   |  |  |  |
| 10            | HQAM       | 25     | 0         | 21.77            | 21.78               | 21.79               |             |          |    |   |  |  |  |
| 10            | HQAM       | 25     | 12        | 20.74            | 20.79               | 20.80               | 22          | 2        |    |   |  |  |  |
| 10            | HQAM       | 25     | 29        | 20.78            | 20.80               | 20.74               |             |          |    |   |  |  |  |
| 10            | HQAM       | 50     | 0         | 18.40            | 18.40               | 18.40               | 20          | 4        |    |   |  |  |  |
| 10            | HQAM       | 50     | 12        | 18.50            | 18.42               | 18.40               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 0         | 18.40            | 18.40               | 18.40               | 20          | 4        |    |   |  |  |  |
| 10            | HQAM       | 1      | 29        | 18.26            | 18.30               | 18.25               |             |          |    |   |  |  |  |
| 10            | HQAM       | 1      | 49        | 18.27            | 18.30               | 18.25               | 20          | 4        |    |   |  |  |  |
| 10            | HQAM       | 25     | 0         | 18.40            | 18.40               | 18.40               |             |          |    |   |  |  |  |
| 10            | HQAM       | 25     | 12        | 18.44            | 18.43               | 18.44               | 20          | 4        |    |   |  |  |  |
| 10            | HQAM       | 25     | 29        | 18.44            | 18.43               | 18.44               |             |          |    |   |  |  |  |
| 10            | HQAM       | 25     | 44        | 18.44            | 18.43               | 18.44               | 20          | 4        |    |   |  |  |  |
| 10            | HQAM       | 25     | 59        | 18.44            | 18.43               | 18.44               |             |          |    |   |  |  |  |
| 10            | HQAM       | 50     | 0         | 18.53            | 18.58               | 18.58               | 20          | 4        |    |   |  |  |  |
| Channel 4     |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
| Channel       |            |        |           | 131967           | 130022              | 130647              |             |          |    |   |  |  |  |
| 5             | QPSK       | 1      | 0         | 22.73            | 22.73               | 22.73               | 24          | 0        |    |   |  |  |  |
| 5             | QPSK       | 1      | 12        | 22.77            | 22.86               | 22.76               |             |          |    |   |  |  |  |
| 5             | QPSK       | 1      | 24        | 22.83            | 22.89               | 22.89               | 24          | 0        |    |   |  |  |  |
| 5             | QPSK       | 1      | 36        | 22.85            | 22.82               | 22.89               |             |          |    |   |  |  |  |
| 5             | QPSK       | 12     | 7         | 22.62            | 22.66               | 22.73               | 24          | 0        |    |   |  |  |  |
| 5             | QPSK       | 12     | 19        | 22.69            | 22.73               | 22.69               |             |          |    |   |  |  |  |
| 5             | QPSK       | 12     | 31        | 22.62            | 22.66               | 22.73               | 24          | 0        |    |   |  |  |  |
| 5             | QPSK       | 12     | 43        | 22.62            | 22.66               | 22.73               |             |          |    |   |  |  |  |
| 5             | HQAM       | 1      | 0         | 22.70            | 22.69               | 22.68               | 22          | 2        |    |   |  |  |  |
| 5             | HQAM       | 1      | 12        | 22.71            | 22.64               | 22.70               |             |          |    |   |  |  |  |
| 5             | HQAM       | 1      | 24        | 22.79            | 22.76               | 22.81               | 23          | 1        |    |   |  |  |  |
| 5             | HQAM       | 12     | 7         | 21.77            | 21.76               | 21.91               |             |          |    |   |  |  |  |
| 5             | HQAM       | 12     | 19        | 21.79            | 21.76               | 21.86               | 23          | 1        |    |   |  |  |  |
| 5             | HQAM       | 25     | 0         | 21.75            | 21.76               | 21.84               |             |          |    |   |  |  |  |
| 5             | HQAM       | 1      | 0         | 21.85            | 22.00               | 21.88               | 23          | 1        |    |   |  |  |  |
| 5             | HQAM       | 1      | 12        | 21.79            | 21.78               | 21.84               |             |          |    |   |  |  |  |
| 5             | HQAM       | 1      | 24        | 21.86            | 21.80               | 21.76               | 23          | 1        |    |   |  |  |  |
| 5             | HQAM       | 12     | 9         | 20.85            | 20.76               | 20.85               |             |          |    |   |  |  |  |
| 5             | HQAM       | 12     | 21        | 20.89            | 20.79               | 20.82               | 22          | 2        |    |   |  |  |  |
| 5             | HQAM       | 12     | 33        | 20.74            | 20.80               | 20.83               |             |          |    |   |  |  |  |
| 5             | HQAM       | 25     | 0         | 20.82            | 20.84               | 20.87               | 22          | 2        |    |   |  |  |  |
| 5             | HQAM       | 25     | 12        | 20.83            | 20.84               | 20.87               |             |          |    |   |  |  |  |
| 5             | HQAM       | 25     | 24        | 20.84            | 20.83               | 20.88               | 22          | 2        |    |   |  |  |  |
| 5             | HQAM       | 25     | 36        | 20.85            | 20.84               | 20.88               |             |          |    |   |  |  |  |
| 5             | HQAM       | 12     | 48        | 18.56            | 18.56               | 18.54               | 20          | 4        |    |   |  |  |  |
| 5             | HQAM       | 12     | 7         | 18.54            | 18.52               | 18.51               |             |          |    |   |  |  |  |
| 5             | HQAM       | 12     | 19        | 18.54            | 18.52               | 18.51               | 20          | 4        |    |   |  |  |  |
| 5             | HQAM       | 12     | 31        | 18.54            | 18.52               | 18.51               |             |          |    |   |  |  |  |
| 5             | HQAM       | 12     | 43        | 18.54            | 18.52               | 18.51               | 20          | 4        |    |   |  |  |  |
| 5             | HQAM       | 25     | 0         | 18.46            | 18.46               | 18.46               |             |          |    |   |  |  |  |
| 5             | HQAM       | 25     | 12        | 18.46            | 18.46               | 18.47               | 20          | 4        |    |   |  |  |  |
| 5             | HQAM       | 25     | 24        | 18.46            | 18.46               | 18.47               |             |          |    |   |  |  |  |
| Channel 5     |            |        |           |                  |                     |                     |             |          |    |   |  |  |  |
| Channel       |            |        |           | 131917           | 130022              | 130697              |             |          |    |   |  |  |  |
| 3             | QPSK       | 1      | 0         | 22.73            | 22.73               | 22.73               | 24          | 0        |    |   |  |  |  |
| 3             | QPSK       | 1      | 8         | 22.77            | 22.82               | 22.82               |             |          |    |   |  |  |  |
| 3             | QPSK       | 1      | 14        | 22.81            | 22.89               | 22.84               | 24          | 0        |    |   |  |  |  |
| 3             | QPSK       | 1      | 20        | 22.70            | 22.81               | 22.81               |             |          |    |   |  |  |  |
| 3             | QPSK       | 4      | 4         | 22.61            | 22.64               | 22.73               | 24          | 0        |    |   |  |  |  |
| 3             | QPSK       | 8      | 7         | 22.64            | 22.69               | 22.72               |             |          |    |   |  |  |  |
| 3             | QPSK       | 8      | 14        | 22.68            | 22.71               | 22.73               | 24          | 0        |    |   |  |  |  |
| 3             | QPSK       | 1      | 0         | 22.73            | 22.69               | 22.68               |             |          |    |   |  |  |  |
| 3             | HQAM       | 1      | 8         | 22.71            | 22.60               | 22.76               | 22          | 2        |    |   |  |  |  |
| 3             | HQAM       | 8      | 14        | 22.81            | 22.81               | 22.86               |             |          |    |   |  |  |  |
| 3             | HQAM       | 8      | 20        | 21.74            | 21.69               | 21.83               | 23          | 1        |    |   |  |  |  |
| 3             | HQAM       | 4      | 4         | 21.79            | 21.76               | 21.87               |             |          |    |   |  |  |  |
| 3             | HQAM       | 4      | 10        | 21.77            | 21.74               | 21.80               | 23          | 1        |    |   |  |  |  |
| 3             | HQAM       | 15     | 0         | 21.77            | 21.81               | 21.88               |             |          |    |   |  |  |  |
| 3             | HQAM       | 1      | 0         | 21.80            | 22.02               | 21.83               | 23          | 1        |    |   |  |  |  |
| 3             | HQAM       | 1      | 8         | 21.77            | 21.78               | 21.84               |             |          |    |   |  |  |  |
| 3             | HQAM       | 1      | 14        | 21.85            | 21.87               | 21.75               | 23          | 1        |    |   |  |  |  |
| 3             | HQAM       | 8      | 0         | 20.73            | 20.75               | 20.80               |             |          |    |   |  |  |  |
| 3             | HQAM       | 8      | 8         | 20.80            | 20.82               | 20.89               | 22          | 2        |    |   |  |  |  |
| 3             | HQAM       | 8      | 14        | 20.74            | 20.74               | 20.78               |             |          |    |   |  |  |  |
| 3             | HQAM       | 15     | 0         | 20.76            | 20.84               | 20.86               | 22          | 2        |    |   |  |  |  |
| 3             | HQAM       | 1      | 0         | 18.50            | 18.51               | 18.48               |             |          |    |   |  |  |  |
| 3             | HQAM       | 1      | 8         | 18.20            | 18.21               | 18.24               | 20          | 4        |    |   |  |  |  |
| 3             | HQAM       | 1      | 14        | 18.49            | 18.53               | 18.52               |             |          |    |   |  |  |  |
| 3             | HQAM       | 1      | 20        | 18.49            | 18.53               | 18.52               | 20          | 4        |    |   |  |  |  |
| 3             | HQAM       | 8      | 0         | 18.48            | 18.48               | 18.48               |             |          |    |   |  |  |  |
| 3             | HQAM       | 8      | 8         | 18.48            | 18.48               | 18.48               | 20          | 4        |    |   |  |  |  |
| 3             | HQAM       | 8      | 14        | 18.48            | 18.48               |                     |             |          |    |   |  |  |  |

| Band 71_Ant 1   |            |         |           |                       |                         |                        |                    |          |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|-------------------------|------------------------|--------------------|----------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Medio Ch. / Freq. | Power High Ch. / Freq. | Tune-up Intd. (dB) | MPE (dB) |          |  |  |
| Channel         |            |         |           | 193222                | 193297                  | 193372                 |                    |          |          |  |  |
| Frequency (MHz) |            |         |           | 873                   | 880.5                   | 888.2                  |                    |          |          |  |  |
| 20              | QPSK       | 1       | 0         | 19.17                 | 19.23                   | 19.17                  | 20.6               | 0        |          |  |  |
| 20              | QPSK       | 1       | 49        | 19.34                 | 19.38                   | 19.32                  |                    |          |          |  |  |
| 20              | QPSK       | 1       | 98        | 19.16                 | 19.23                   | 19.16                  |                    |          |          |  |  |
| 20              | QPSK       | 50      | 0         | 19.21                 | 19.17                   | 19.15                  | 20.6               | 0        |          |  |  |
| 20              | QPSK       | 50      | 24        | 19.16                 | 19.22                   | 19.14                  |                    |          |          |  |  |
| 20              | QPSK       | 50      | 50        | 19.15                 | 19.22                   | 19.15                  |                    |          |          |  |  |
| 20              | 16QAM      | 1       | 0         | 19.07                 | 19.15                   | 19.11                  | 20.6               | 0        |          |  |  |
| 20              | 16QAM      | 1       | 49        | 19.19                 | 19.24                   | 19.20                  |                    |          |          |  |  |
| 20              | 16QAM      | 1       | 99        | 19.15                 | 19.21                   | 19.14                  |                    |          |          |  |  |
| 20              | 16QAM      | 50      | 0         | 19.16                 | 19.21                   | 19.14                  | 20.6               | 0        |          |  |  |
| 20              | 16QAM      | 50      | 24        | 19.12                 | 19.21                   | 19.13                  |                    |          |          |  |  |
| 20              | 16QAM      | 50      | 50        | 19.13                 | 19.18                   | 19.10                  |                    |          |          |  |  |
| 20              | 16QAM      | 100     | 0         | 19.13                 | 19.19                   | 19.14                  | 20.6               | 0        |          |  |  |
| 20              | 16QAM      | 1       | 0         | 19.11                 | 19.20                   | 19.16                  |                    |          |          |  |  |
| 20              | 16QAM      | 1       | 49        | 19.11                 | 19.21                   | 19.16                  |                    |          |          |  |  |
| 20              | 16QAM      | 1       | 99        | 19.14                 | 19.21                   | 19.13                  | 20.6               | 0        |          |  |  |
| 20              | 16QAM      | 50      | 0         | 19.12                 | 19.16                   | 19.14                  |                    |          |          |  |  |
| 20              | 16QAM      | 50      | 24        | 19.14                 | 19.24                   | 19.19                  |                    |          |          |  |  |
| 20              | 16QAM      | 50      | 50        | 19.13                 | 19.18                   | 19.10                  | 20.6               | 0        |          |  |  |
| 20              | 16QAM      | 100     | 0         | 19.13                 | 19.19                   | 19.14                  |                    |          |          |  |  |
| 20              | 256QAM     | 1       | 0         | 19.14                 | 19.23                   | 19.16                  |                    |          |          |  |  |
| 20              | 256QAM     | 1       | 49        | 19.16                 | 19.17                   | 19.15                  | 20                 | 0.6      |          |  |  |
| 20              | 256QAM     | 1       | 99        | 19.14                 | 19.22                   | 19.16                  |                    |          |          |  |  |
| 20              | 256QAM     | 50      | 0         | 19.15                 | 19.22                   | 19.12                  |                    |          |          |  |  |
| 20              | 256QAM     | 50      | 24        | 19.14                 | 19.23                   | 19.16                  | 20                 | 0.6      |          |  |  |
| 20              | 256QAM     | 50      | 50        | 19.15                 | 19.20                   | 19.16                  |                    |          |          |  |  |
| 20              | 256QAM     | 100     | 0         | 19.12                 | 19.18                   | 19.11                  |                    |          |          |  |  |
| Channel         |            |         |           | 193377                | 193397                  | 193447                 | Tune-up Intd. (dB) |          | MPE (dB) |  |  |
| Frequency (MHz) |            |         |           | 870.5                 | 880.5                   | 889.5                  |                    |          |          |  |  |
| 15              | QPSK       | 1       | 0         | 19.08                 | 19.16                   | 19.16                  | 20.6               | 0        |          |  |  |
| 15              | QPSK       | 1       | 37        | 19.24                 | 19.24                   | 19.24                  |                    |          |          |  |  |
| 15              | QPSK       | 1       | 74        | 19.12                 | 19.09                   | 19.15                  |                    |          |          |  |  |
| 15              | QPSK       | 36      | 0         | 19.18                 | 19.19                   | 19.17                  | 20.6               | 0        |          |  |  |
| 15              | QPSK       | 36      | 20        | 19.10                 | 19.09                   | 19.09                  |                    |          |          |  |  |
| 15              | QPSK       | 36      | 36        | 19.07                 | 19.05                   | 19.06                  |                    |          |          |  |  |
| 15              | QPSK       | 75      | 0         | 19.14                 | 19.15                   | 19.16                  | 20.6               | 0        |          |  |  |
| 15              | 16QAM      | 1       | 0         | 19.09                 | 19.09                   | 19.07                  |                    |          |          |  |  |
| 15              | 16QAM      | 1       | 37        | 19.12                 | 19.16                   | 19.15                  |                    |          |          |  |  |
| 15              | 16QAM      | 1       | 74        | 19.10                 | 19.06                   | 19.07                  | 20.6               | 0        |          |  |  |
| 15              | 16QAM      | 36      | 0         | 19.10                 | 19.11                   | 19.05                  |                    |          |          |  |  |
| 15              | 16QAM      | 36      | 20        | 19.11                 | 19.04                   | 19.05                  |                    |          |          |  |  |
| 15              | 16QAM      | 36      | 36        | 19.09                 | 19.10                   | 19.10                  | 20.6               | 0        |          |  |  |
| 15              | 16QAM      | 75      | 0         | 19.07                 | 19.09                   | 19.05                  |                    |          |          |  |  |
| 15              | 16QAM      | 1       | 0         | 19.07                 | 19.03                   | 19.06                  |                    |          |          |  |  |
| 15              | 16QAM      | 1       | 37        | 19.11                 | 19.09                   | 19.09                  | 20.6               | 0        |          |  |  |
| 15              | 16QAM      | 1       | 74        | 19.12                 | 19.06                   | 19.11                  |                    |          |          |  |  |
| 15              | 16QAM      | 36      | 0         | 19.07                 | 19.10                   | 19.06                  |                    |          |          |  |  |
| 15              | 16QAM      | 36      | 20        | 19.16                 | 19.17                   | 19.17                  | 20.6               | 0        |          |  |  |
| 15              | 16QAM      | 36      | 36        | 19.06                 | 19.02                   | 19.06                  |                    |          |          |  |  |
| 15              | 16QAM      | 75      | 0         | 19.12                 | 19.10                   | 19.09                  |                    |          |          |  |  |
| 15              | 256QAM     | 1       | 0         | 19.15                 | 19.06                   | 19.16                  | 20                 | 0.6      |          |  |  |
| 15              | 256QAM     | 1       | 37        | 19.09                 | 19.09                   | 19.10                  |                    |          |          |  |  |
| 15              | 256QAM     | 1       | 74        | 19.14                 | 19.17                   | 19.15                  |                    |          |          |  |  |
| 15              | 256QAM     | 36      | 0         | 19.10                 | 19.08                   | 19.03                  | 20                 | 0.6      |          |  |  |
| 15              | 256QAM     | 36      | 20        | 19.15                 | 19.09                   | 19.13                  |                    |          |          |  |  |
| 15              | 256QAM     | 36      | 36        | 19.09                 | 19.12                   | 19.09                  |                    |          |          |  |  |
| 15              | 256QAM     | 75      | 0         | 19.02                 | 19.09                   | 19.04                  |                    |          |          |  |  |
| Channel         |            |         |           | 193372                | 193397                  | 193447                 | Tune-up Intd. (dB) | MPE (dB) |          |  |  |
| Frequency (MHz) |            |         |           | 888                   | 880.5                   | 889.5                  |                    |          |          |  |  |
| 10              | QPSK       | 1       | 0         | 19.13                 | 19.07                   | 19.11                  | 20.6               | 0        |          |  |  |
| 10              | QPSK       | 1       | 25        | 19.26                 | 19.25                   | 19.26                  |                    |          |          |  |  |
| 10              | QPSK       | 1       | 49        | 19.17                 | 19.17                   | 19.06                  |                    |          |          |  |  |
| 10              | QPSK       | 25      | 0         | 19.22                 | 19.25                   | 19.16                  | 20.6               | 0        |          |  |  |
| 10              | QPSK       | 25      | 12        | 19.10                 | 19.14                   | 19.07                  |                    |          |          |  |  |
| 10              | QPSK       | 25      | 24        | 19.10                 | 19.10                   | 19.13                  |                    |          |          |  |  |
| 10              | QPSK       | 50      | 0         | 19.11                 | 19.16                   | 19.10                  | 20.6               | 0        |          |  |  |
| 10              | 16QAM      | 1       | 0         | 19.01                 | 19.05                   | 19.05                  |                    |          |          |  |  |
| 10              | 16QAM      | 1       | 25        | 19.13                 | 19.16                   | 19.15                  |                    |          |          |  |  |
| 10              | 16QAM      | 1       | 49        | 19.06                 | 19.06                   | 19.09                  | 20.6               | 0        |          |  |  |
| 10              | 16QAM      | 25      | 0         | 19.05                 | 19.08                   | 19.10                  |                    |          |          |  |  |
| 10              | 16QAM      | 25      | 12        | 19.05                 | 19.11                   | 19.08                  |                    |          |          |  |  |
| 10              | 16QAM      | 25      | 25        | 19.12                 | 19.09                   | 19.07                  | 20.6               | 0        |          |  |  |
| 10              | 16QAM      | 50      | 0         | 19.06                 | 19.03                   | 19.05                  |                    |          |          |  |  |
| 10              | 16QAM      | 1       | 0         | 19.09                 | 19.09                   | 19.09                  |                    |          |          |  |  |
| 10              | 16QAM      | 1       | 25        | 19.09                 | 19.11                   | 19.17                  | 20.6               | 0        |          |  |  |
| 10              | 16QAM      | 1       | 49        | 19.04                 | 19.09                   | 19.12                  |                    |          |          |  |  |
| 10              | 16QAM      | 25      | 0         | 19.10                 | 19.10                   | 19.05                  |                    |          |          |  |  |
| 10              | 16QAM      | 25      | 12        | 19.13                 | 19.13                   | 19.15                  | 20.6               | 0        |          |  |  |
| 10              | 16QAM      | 50      | 0         | 19.04                 | 19.04                   | 19.12                  |                    |          |          |  |  |
| 10              | 256QAM     | 1       | 0         | 19.14                 | 19.15                   | 19.16                  |                    |          |          |  |  |
| 10              | 256QAM     | 1       | 25        | 19.05                 | 19.12                   | 19.10                  | 20                 | 0.6      |          |  |  |
| 10              | 256QAM     | 1       | 49        | 19.10                 | 19.14                   | 19.10                  |                    |          |          |  |  |
| 10              | 256QAM     | 25      | 0         | 19.06                 | 19.04                   | 19.11                  |                    |          |          |  |  |
| 10              | 256QAM     | 25      | 12        | 19.15                 | 19.16                   | 19.14                  | 20                 | 0.6      |          |  |  |
| 10              | 256QAM     | 25      | 25        | 19.13                 | 19.10                   | 19.07                  |                    |          |          |  |  |
| 10              | 256QAM     | 50      | 0         | 19.05                 | 19.06                   | 19.02                  |                    |          |          |  |  |
| Channel         |            |         |           | 193377                | 193397                  | 193447                 | Tune-up Intd. (dB) | MPE (dB) |          |  |  |
| Frequency (MHz) |            |         |           | 895.5                 | 890.5                   | 895.5                  |                    |          |          |  |  |
| 5               | QPSK       | 1       | 0         | 19.11                 | 19.10                   | 19.11                  | 20.6               | 0        |          |  |  |
| 5               | QPSK       | 1       | 12        | 19.27                 | 19.25                   | 19.26                  |                    |          |          |  |  |
| 5               | QPSK       | 1       | 24        | 19.13                 | 19.11                   | 19.11                  |                    |          |          |  |  |
| 5               | QPSK       | 12      | 0         | 19.20                 | 19.22                   | 19.26                  | 20.6               | 0        |          |  |  |
| 5               | QPSK       | 12      | 7         | 19.07                 | 19.11                   | 19.11                  |                    |          |          |  |  |
| 5               | QPSK       | 12      | 14        | 19.06                 | 19.06                   | 19.06                  |                    |          |          |  |  |
| 5               | QPSK       | 25      | 0         | 19.18                 | 19.13                   | 19.16                  | 20.6               | 0        |          |  |  |
| 5               | 16QAM      | 1       | 0         | 19.07                 | 19.07                   | 19.08                  |                    |          |          |  |  |
| 5               | 16QAM      | 1       | 12        | 19.14                 | 19.14                   | 19.11                  |                    |          |          |  |  |
| 5               | 16QAM      | 1       | 24        | 19.05                 | 19.05                   | 19.05                  | 20.6               | 0        |          |  |  |
| 5               | 16QAM      | 12      | 0         | 19.05                 | 19.09                   | 19.10                  |                    |          |          |  |  |
| 5               | 16QAM      | 12      | 7         | 19.03                 | 19.11                   | 19.10                  |                    |          |          |  |  |
| 5               | 16QAM      | 12      | 14        | 19.10                 | 19.05                   | 19.08                  | 20.6               | 0        |          |  |  |
| 5               | 16QAM      | 25      | 0         | 19.08                 | 19.08                   | 19.06                  |                    |          |          |  |  |
| 5               | 16QAM      | 1       | 0         | 19.06                 | 19.04                   | 19.04                  |                    |          |          |  |  |
| 5               | 16QAM      | 1       | 12        | 19.11                 | 19.12                   | 19.17                  | 20.6               | 0        |          |  |  |
| 5               | 16QAM      | 1       | 24        | 19.06                 | 19.12                   | 19.05                  |                    |          |          |  |  |
| 5               | 16QAM      | 12      | 0         | 19.11                 | 19.07                   | 19.06                  |                    |          |          |  |  |
| 5               | 16QAM      | 12      | 7         | 19.16                 | 19.16                   | 19.16                  | 20.6               | 0        |          |  |  |
| 5               | 16QAM      | 12      | 14        | 19.09                 | 19.07                   | 19.06                  |                    |          |          |  |  |
| 5               | 16QAM      | 25      | 0         | 19.12                 | 19.11                   | 19.10                  |                    |          | </td>    |  |  |



| Band 38_Ant 9   |            |         |           |                     |                      |                      |                    |          |      |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|----------|------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-on time (dBm) | MPR (dB) |      |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |      |  |
| Frequency (MHz) |            |         |           | 37650               | 38000                | 38150                |                    |          |      |  |
| 20              | QPSK       | 1       | 0         | 23.04               | 23.14                | 23.01                | 24                 | 0        |      |  |
| 20              | QPSK       | 1       | 49        | 23.08               | 23.02                | 23.10                |                    |          |      |  |
| 20              | QPSK       | 1       | 99        | 23.18               | 23.21                | 22.97                |                    |          |      |  |
| 20              | QPSK       | 50      | 0         | 23.30               | 23.35                | 23.18                |                    |          |      |  |
| 20              | QPSK       | 50      | 24        | 23.28               | 23.32                | 23.12                | 24                 | 0        |      |  |
| 20              | QPSK       | 50      | 50        | 23.20               | 23.28                | 23.16                |                    |          |      |  |
| 20              | QPSK       | 100     | 0         | 23.30               | 23.32                | 23.23                |                    |          |      |  |
| 20              | 16QAM      | 1       | 0         | 23.05               | 23.13                | 22.71                |                    |          |      |  |
| 20              | 16QAM      | 1       | 49        | 22.75               | 22.76                | 22.75                | 24                 | 0        |      |  |
| 20              | 16QAM      | 1       | 99        | 23.19               | 23.09                | 23.02                |                    |          |      |  |
| 20              | 16QAM      | 50      | 0         | 22.75               | 22.96                | 22.86                |                    |          |      |  |
| 20              | 16QAM      | 50      | 24        | 23.11               | 22.96                | 23.02                |                    |          | 23.5 |  |
| 20              | 16QAM      | 100     | 0         | 22.95               | 22.90                | 22.86                | 23.5               | 0.5      |      |  |
| 20              | 64QAM      | 1       | 0         | 22.48               | 22.51                | 22.75                |                    |          |      |  |
| 20              | 64QAM      | 1       | 49        | 22.75               | 22.76                | 22.55                |                    |          |      |  |
| 20              | 64QAM      | 1       | 99        | 22.89               | 22.85                | 22.61                |                    |          |      |  |
| 20              | 64QAM      | 50      | 0         | 21.78               | 21.92                | 21.89                | 22.5               | 1.5      |      |  |
| 20              | 64QAM      | 50      | 24        | 22.09               | 21.95                | 21.93                |                    |          |      |  |
| 20              | 64QAM      | 50      | 50        | 22.08               | 22.09                | 21.99                |                    |          |      |  |
| 20              | 64QAM      | 100     | 0         | 21.95               | 22.03                | 21.93                |                    |          |      |  |
| 20              | 256QAM     | 1       | 0         | 19.60               | 19.63                | 19.58                | 20.5               | 3.5      |      |  |
| 20              | 256QAM     | 1       | 49        | 19.61               | 19.58                | 19.45                |                    |          |      |  |
| 20              | 256QAM     | 1       | 99        | 19.41               | 19.46                | 19.39                |                    |          |      |  |
| 20              | 256QAM     | 50      | 0         | 19.68               | 19.74                | 19.68                |                    |          |      |  |
| 20              | 256QAM     | 50      | 24        | 19.62               | 19.67                | 19.63                | 20.5               | 3.5      |      |  |
| 20              | 256QAM     | 50      | 50        | 19.62               | 19.63                | 19.62                |                    |          |      |  |
| 20              | 256QAM     | 100     | 0         | 19.68               | 19.74                | 19.72                |                    |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |      |  |
| Frequency (MHz) |            |         |           | 37625               | 38000                | 38175                | Turn-on time (dBm) | MPR (dB) |      |  |
| 15              | QPSK       | 1       | 0         | 22.88               | 23.10                | 22.86                | 24                 | 0        |      |  |
| 15              | QPSK       | 1       | 37        | 23.29               | 23.35                | 22.89                |                    |          |      |  |
| 15              | QPSK       | 1       | 74        | 23.02               | 23.17                | 22.78                |                    |          |      |  |
| 15              | QPSK       | 36      | 0         | 23.25               | 23.34                | 23.10                |                    |          |      |  |
| 15              | QPSK       | 36      | 20        | 23.09               | 23.19                | 22.96                | 24                 | 0        |      |  |
| 15              | QPSK       | 36      | 36        | 23.02               | 23.17                | 23.15                |                    |          |      |  |
| 15              | QPSK       | 75      | 0         | 23.13               | 23.18                | 23.07                |                    |          |      |  |
| 15              | 16QAM      | 1       | 0         | 22.39               | 22.96                | 22.96                |                    |          |      |  |
| 15              | 16QAM      | 1       | 37        | 22.89               | 23.03                | 23.16                | 24                 | 0        |      |  |
| 15              | 16QAM      | 1       | 74        | 23.10               | 22.93                | 22.91                |                    |          |      |  |
| 15              | 16QAM      | 36      | 0         | 22.62               | 22.76                | 22.82                |                    |          |      |  |
| 15              | 16QAM      | 36      | 20        | 23.03               | 22.79                | 22.99                |                    |          | 23.5 |  |
| 15              | 16QAM      | 36      | 36        | 22.90               | 22.97                | 22.91                | 23.5               | 0.5      |      |  |
| 15              | 16QAM      | 75      | 0         | 22.93               | 22.71                | 22.74                |                    |          |      |  |
| 15              | 64QAM      | 1       | 0         | 22.61               | 22.36                | 22.36                |                    |          |      |  |
| 15              | 64QAM      | 1       | 37        | 22.63               | 22.73                | 22.51                |                    |          |      |  |
| 15              | 64QAM      | 1       | 74        | 22.51               | 22.75                | 22.55                | 22.5               | 1.5      |      |  |
| 15              | 64QAM      | 36      | 0         | 21.70               | 21.79                | 21.84                |                    |          |      |  |
| 15              | 64QAM      | 36      | 20        | 21.86               | 21.86                | 21.82                |                    |          |      |  |
| 15              | 64QAM      | 36      | 36        | 21.92               | 21.91                | 21.95                |                    |          |      |  |
| 15              | 64QAM      | 75      | 0         | 21.79               | 21.87                | 21.81                | 20.5               | 3.5      |      |  |
| 15              | 256QAM     | 1       | 0         | 19.35               | 19.35                | 19.35                |                    |          |      |  |
| 15              | 256QAM     | 1       | 37        | 19.38               | 19.43                | 19.39                |                    |          |      |  |
| 15              | 256QAM     | 1       | 74        | 19.35               | 19.42                | 19.32                |                    |          |      |  |
| 15              | 256QAM     | 36      | 0         | 19.65               | 19.62                | 19.58                | 20.5               | 3.5      |      |  |
| 15              | 256QAM     | 36      | 20        | 19.59               | 19.62                | 19.57                |                    |          |      |  |
| 15              | 256QAM     | 36      | 36        | 19.56               | 19.54                | 19.53                |                    |          |      |  |
| 15              | 256QAM     | 75      | 0         | 19.59               | 19.69                | 19.67                |                    |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |      |  |
| Frequency (MHz) |            |         |           | 37600               | 38000                | 38200                | Turn-on time (dBm) | MPR (dB) |      |  |
| 10              | QPSK       | 1       | 0         | 23.15               | 23.05                | 23.03                | 24                 | 0        |      |  |
| 10              | QPSK       | 1       | 25        | 23.19               | 23.31                | 23.05                |                    |          |      |  |
| 10              | QPSK       | 1       | 49        | 23.03               | 23.09                | 22.91                |                    |          |      |  |
| 10              | QPSK       | 25      | 0         | 23.29               | 23.25                | 23.07                |                    |          |      |  |
| 10              | QPSK       | 25      | 12        | 23.26               | 23.27                | 23.01                | 24                 | 0        |      |  |
| 10              | QPSK       | 25      | 25        | 23.04               | 23.09                | 23.10                |                    |          |      |  |
| 10              | QPSK       | 50      | 0         | 23.19               | 23.22                | 23.17                |                    |          |      |  |
| 10              | 16QAM      | 1       | 0         | 23.13               | 23.02                | 22.63                |                    |          |      |  |
| 10              | 16QAM      | 1       | 25        | 22.95               | 23.10                | 23.01                | 24                 | 0        |      |  |
| 10              | 16QAM      | 1       | 49        | 23.06               | 22.91                | 22.95                |                    |          |      |  |
| 10              | 16QAM      | 25      | 0         | 22.73               | 22.97                | 22.81                |                    |          |      |  |
| 10              | 16QAM      | 25      | 12        | 23.09               | 22.79                | 22.91                |                    |          | 23.5 |  |
| 10              | 16QAM      | 25      | 25        | 22.95               | 22.94                | 22.79                | 23.5               | 0.5      |      |  |
| 10              | 16QAM      | 50      | 0         | 22.75               | 22.71                | 22.67                |                    |          |      |  |
| 10              | 64QAM      | 1       | 0         | 22.47               | 22.33                | 22.56                |                    |          |      |  |
| 10              | 64QAM      | 1       | 25        | 22.84               | 22.66                | 22.46                |                    |          |      |  |
| 10              | 64QAM      | 1       | 49        | 22.51               | 22.78                | 22.46                | 22.5               | 1.5      |      |  |
| 10              | 64QAM      | 25      | 0         | 21.65               | 21.86                | 21.84                |                    |          |      |  |
| 10              | 64QAM      | 25      | 12        | 22.06               | 21.84                | 21.75                |                    |          |      |  |
| 10              | 64QAM      | 25      | 25        | 21.92               | 22.03                | 21.93                |                    |          |      |  |
| 10              | 64QAM      | 50      | 0         | 21.84               | 22.01                | 21.82                | 20.5               | 3.5      |      |  |
| 10              | 256QAM     | 1       | 0         | 19.55               | 19.56                | 19.46                |                    |          |      |  |
| 10              | 256QAM     | 1       | 25        | 19.38               | 19.46                | 19.41                |                    |          |      |  |
| 10              | 256QAM     | 1       | 49        | 19.34               | 19.34                | 19.28                |                    |          |      |  |
| 10              | 256QAM     | 25      | 0         | 19.62               | 19.64                | 19.61                | 20.5               | 3.5      |      |  |
| 10              | 256QAM     | 25      | 12        | 19.55               | 19.62                | 19.56                |                    |          |      |  |
| 10              | 256QAM     | 25      | 25        | 19.56               | 19.60                | 19.56                |                    |          |      |  |
| 10              | 256QAM     | 50      | 0         | 19.56               | 19.66                | 19.69                |                    |          |      |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |      |  |
| Frequency (MHz) |            |         |           | 37725               | 38000                | 38225                | Turn-on time (dBm) | MPR (dB) |      |  |
| 5               | QPSK       | 1       | 0         | 22.88               | 23.07                | 22.95                | 24                 | 0        |      |  |
| 5               | QPSK       | 1       | 12        | 23.34               | 23.37                | 22.98                |                    |          |      |  |
| 5               | QPSK       | 1       | 24        | 23.10               | 23.09                | 22.82                |                    |          |      |  |
| 5               | QPSK       | 12      | 0         | 23.13               | 23.24                | 23.17                |                    |          |      |  |
| 5               | QPSK       | 12      | 7         | 23.12               | 23.17                | 23.11                | 24                 | 0        |      |  |
| 5               | QPSK       | 12      | 13        | 23.19               | 23.25                | 23.06                |                    |          |      |  |
| 5               | QPSK       | 25      | 0         | 23.18               | 23.14                | 23.04                |                    |          |      |  |
| 5               | 16QAM      | 1       | 0         | 22.97               | 23.06                | 22.53                |                    |          |      |  |
| 5               | 16QAM      | 1       | 12        | 22.86               | 23.13                | 23.03                | 24                 | 0        |      |  |
| 5               | 16QAM      | 1       | 24        | 22.99               | 22.89                | 22.98                |                    |          |      |  |
| 5               | 16QAM      | 12      | 0         | 22.68               | 22.82                | 22.71                |                    |          |      |  |
| 5               | 16QAM      | 12      | 7         | 23.05               | 22.77                | 22.91                |                    |          | 23.5 |  |
| 5               | 16QAM      | 12      | 13        | 23.01               | 23.05                | 22.76                | 23.5               | 0.5      |      |  |
| 5               | 16QAM      | 25      | 0         | 22.77               | 23.62                | 23.60                |                    |          |      |  |
| 5               | 64QAM      | 1       | 0         | 22.33               | 22.48                | 22.64                |                    |          |      |  |
| 5               | 64QAM      | 1       | 12        | 22.56               | 22.70                | 22.39                |                    |          |      |  |
| 5               | 64QAM      | 1       | 24        | 22.57               | 22.72                | 22.50                | 23.5               | 0.5      |      |  |
| 5               | 64QAM      | 12      | 0         | 21.63               | 21.79                | 21.75                |                    |          |      |  |
| 5               | 64QAM      | 12      | 7         | 21.89               | 21.88                | 21.86                |                    |          |      |  |
| 5               | 64QAM      | 12      | 13        | 22.02               | 22.08                | 21.87                |                    |          |      |  |
| 5               | 64QAM      | 25      | 0         | 21.84               | 21.86                | 21.86                | 20.5               | 3.5      |      |  |
| 5               | 256QAM     | 1       | 0         | 19.49               | 19.56                | 19.54                |                    |          |      |  |
| 5               | 256QAM     | 1       | 12        | 19.40               | 19.44                | 19.41                |                    |          |      |  |
| 5               | 256QAM     | 1       | 24        | 19.31               | 19.37                | 19.29                | 20.5               | 3.5      |      |  |
| 5               | 256QAM     | 12      | 0         | 19.63               | 19.63                | 19.59                |                    |          |      |  |
| 5               | 256QAM     | 12      | 7         | 19.50               | 19.61                | 19.59                |                    |          |      |  |
| 5               | 256QAM     | 12      | 13        | 19.55               | 19.58                | 19.59                |                    |          |      |  |
| 5               | 256QAM     | 25      | 0         | 19.56               | 19.65                | 19.62                | 20.5               | 3.5      |      |  |

| Band 41 (HPUE)_Ant 9 |            |         |           |                             |                     |                      |                      |                      |                      |                     |          |  |  |  |
|----------------------|------------|---------|-----------|-----------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------|--|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Fec For Power Low Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Turn-up limit (dBm) | MPR (dB) |  |  |  |
| Channel              |            |         |           |                             |                     |                      |                      |                      |                      |                     |          |  |  |  |
| Frequency (MHz)      |            |         |           | 39790                       | 39750               | 40185                | 40620                | 41055                | 41490                |                     |          |  |  |  |
| 20                   | QPSK       | 1       | 0         | 25.67                       | 25.57               | 25.97                | 26.16                | 25.88                | 26.43                | 27                  | 0        |  |  |  |
| 20                   | QPSK       | 1       | 49        | 25.64                       | 25.60               | 26.09                | 26.20                | 25.91                | 26.48                |                     |          |  |  |  |
| 20                   | QPSK       | 50      | 0         | 25.68                       | 25.64               | 26.11                | 26.20                | 25.88                | 26.54                | 27                  | 0        |  |  |  |
| 20                   | QPSK       | 50      | 24        | 25.61                       | 25.59               | 26.04                | 26.18                | 26.03                | 26.53                |                     |          |  |  |  |
| 20                   | QPSK       | 50      | 50        | 25.65                       | 25.63               | 26.01                | 26.11                | 25.99                | 26.45                |                     |          |  |  |  |
| 20                   | QPSK       | 100     | 0         | 25.85                       | 25.80               | 26.17                | 26.28                | 26.07                | 26.51                |                     |          |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 25.50                       | 25.94               | 26.20                | 26.47                | 26.29                | 26.47                | 27                  | 0        |  |  |  |
| 20                   | 16QAM      | 1       | 49        | 25.34                       | 26.04               | 26.45                | 26.60                | 26.42                | 26.54                |                     |          |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 25.38                       | 25.97               | 26.23                | 26.51                | 26.25                | 26.51                |                     |          |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 25.28                       | 26.23               | 25.55                | 25.78                | 25.56                | 25.97                |                     |          |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 25.41                       | 25.35               | 25.72                | 25.79                | 25.59                | 25.86                | 26                  | 1        |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 25.42                       | 25.38               | 25.69                | 25.80                | 25.58                | 25.81                |                     |          |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 25.33                       | 25.29               | 25.73                | 25.76                | 25.74                | 25.88                |                     |          |  |  |  |
| 20                   | 64QAM      | 1       | 49        | 25.46                       | 25.48               | 25.70                | 25.81                | 25.68                | 25.90                |                     |          |  |  |  |
| 20                   | 64QAM      | 1       | 99        | 25.55                       | 25.47               | 25.82                | 25.93                | 25.69                | 25.98                | 26                  | 1        |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 24.20                       | 24.17               | 24.57                | 24.77                | 24.56                | 24.84                |                     |          |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 24.36                       | 24.34               | 24.69                | 24.81                | 24.60                | 24.81                |                     |          |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 24.39                       | 24.32               | 24.69                | 24.83                | 24.54                | 24.84                |                     |          |  |  |  |
| 20                   | 256QAM     | 1       | 0         | 22.07                       | 22.18               | 22.22                | 22.27                | 22.59                | 22.56                | 23                  | 4        |  |  |  |
| 20                   | 256QAM     | 1       | 49        | 21.92                       | 22.14               | 22.17                | 22.76                | 22.48                | 22.68                |                     |          |  |  |  |
| 20                   | 256QAM     | 50      | 0         | 21.95                       | 22.09               | 22.18                | 22.75                | 22.44                | 22.54                |                     |          |  |  |  |
| 20                   | 256QAM     | 50      | 24        | 22.06                       | 22.16               | 22.25                | 22.81                | 22.47                | 22.61                |                     |          |  |  |  |
| 20                   | 256QAM     | 50      | 50        | 21.93                       | 22.02               | 22.13                | 22.68                | 22.49                | 22.82                | 23                  | 4        |  |  |  |
| 20                   | 256QAM     | 100     | 0         | 21.97                       | 22.02               | 22.08                | 22.63                | 22.40                | 22.84                |                     |          |  |  |  |
| Channel              |            |         |           |                             |                     |                      |                      |                      |                      |                     |          |  |  |  |
| Frequency (MHz)      |            |         |           | 39795                       | 39725               | 40173                | 40620                | 41058                | 41515                | Turn-up limit (dBm) | MPR (dB) |  |  |  |
| 15                   | QPSK       | 1       | 0         | 25.60                       | 25.52               | 25.79                | 26.06                | 25.85                | 26.30                | 27                  | 0        |  |  |  |
| 15                   | QPSK       | 1       | 37        | 25.68                       | 25.62               | 26.01                | 26.20                | 25.99                | 26.48                |                     |          |  |  |  |
| 15                   | QPSK       | 1       | 74        | 25.47                       | 25.51               | 26.01                | 26.04                | 25.78                | 26.43                | 27                  | 0        |  |  |  |
| 15                   | QPSK       | 36      | 0         | 25.62                       | 25.53               | 26.01                | 26.12                | 25.97                | 26.40                |                     |          |  |  |  |
| 15                   | QPSK       | 36      | 20        | 25.44                       | 25.56               | 25.98                | 26.17                | 25.97                | 26.47                |                     |          |  |  |  |
| 15                   | QPSK       | 36      | 39        | 25.46                       | 25.52               | 25.99                | 25.99                | 25.85                | 26.42                |                     |          |  |  |  |
| 15                   | QPSK       | 75      | 0         | 25.66                       | 25.70               | 25.99                | 26.08                | 25.95                | 26.39                | 27                  | 0        |  |  |  |
| 15                   | 16QAM      | 1       | 0         | 25.65                       | 25.78               | 26.01                | 26.33                | 26.13                | 26.40                |                     |          |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 26.22                       | 26.00               | 26.32                | 26.50                | 26.35                | 26.35                |                     |          |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 25.90                       | 25.80               | 26.07                | 26.47                | 26.07                | 26.50                |                     |          |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 25.21                       | 25.05               | 25.46                | 25.61                | 25.45                | 25.46                | 26                  | 1        |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 25.25                       | 25.15               | 25.67                | 25.76                | 25.67                | 25.90                |                     |          |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 25.39                       | 25.18               | 25.51                | 25.73                | 25.42                | 25.48                |                     |          |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 25.25                       | 26.14               | 25.66                | 25.68                | 25.39                | 25.51                |                     |          |  |  |  |
| 15                   | 64QAM      | 1       | 0         | 25.18                       | 25.28               | 25.68                | 25.72                | 25.67                | 25.72                | 26                  | 1        |  |  |  |
| 15                   | 64QAM      | 1       | 37        | 25.44                       | 25.28               | 25.68                | 25.61                | 25.57                | 25.74                |                     |          |  |  |  |
| 15                   | 64QAM      | 1       | 74        | 25.49                       | 25.42               | 25.68                | 25.74                | 25.63                | 25.79                |                     |          |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 24.00                       | 24.98               | 24.37                | 24.76                | 24.42                | 24.55                |                     |          |  |  |  |
| 15                   | 64QAM      | 36      | 20        | 24.32                       | 24.30               | 24.60                | 24.73                | 24.63                | 24.70                | 25                  | 2        |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 24.24                       | 24.20               | 24.57                | 24.76                | 24.47                | 24.87                |                     |          |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 24.29                       | 24.15               | 24.67                | 24.76                | 24.47                | 24.70                |                     |          |  |  |  |
| 15                   | 256QAM     | 1       | 0         | 22.01                       | 22.04               | 22.21                | 22.67                | 22.40                | 22.48                |                     |          |  |  |  |
| 15                   | 256QAM     | 1       | 37        | 22.02                       | 22.02               | 21.97                | 22.67                | 22.29                | 22.62                | 23                  | 4        |  |  |  |
| 15                   | 256QAM     | 1       | 74        | 21.83                       | 22.05               | 22.13                | 22.62                | 22.33                | 22.51                |                     |          |  |  |  |
| 15                   | 256QAM     | 36      | 0         | 21.78                       | 22.07               | 22.06                | 22.71                | 22.35                | 22.50                |                     |          |  |  |  |
| 15                   | 256QAM     | 36      | 20        | 22.04                       | 22.04               | 22.05                | 22.46                | 22.25                | 22.54                |                     |          |  |  |  |
| 15                   | 256QAM     | 36      | 39        | 21.83                       | 21.94               | 22.01                | 22.66                | 22.29                | 22.47                | 23                  | 4        |  |  |  |
| 15                   | 256QAM     | 75      | 0         | 21.77                       | 21.89               | 21.88                | 22.51                | 22.23                | 22.44                |                     |          |  |  |  |
| Channel              |            |         |           |                             |                     |                      |                      |                      |                      |                     |          |  |  |  |
| Frequency (MHz)      |            |         |           | 39740                       | 39760               | 40160                | 40620                | 41080                | 41540                | Turn-up limit (dBm) | MPR (dB) |  |  |  |
| 10                   | QPSK       | 1       | 0         | 25.58                       | 25.52               | 25.91                | 25.99                | 25.71                | 26.26                | 27                  | 0        |  |  |  |
| 10                   | QPSK       | 1       | 25        | 25.63                       | 25.61               | 26.00                | 26.19                | 26.00                | 26.49                |                     |          |  |  |  |
| 10                   | QPSK       | 1       | 49        | 25.53                       | 25.51               | 25.90                | 26.00                | 25.78                | 26.45                | 27                  | 0        |  |  |  |
| 10                   | QPSK       | 24      | 0         | 25.61                       | 25.58               | 25.96                | 26.06                | 25.86                | 26.45                |                     |          |  |  |  |
| 10                   | QPSK       | 25      | 12        | 25.48                       | 25.50               | 25.99                | 26.00                | 25.89                | 26.38                |                     |          |  |  |  |
| 10                   | QPSK       | 25      | 25        | 25.61                       | 25.48               | 25.94                | 25.98                | 25.98                | 26.44                |                     |          |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 25.76                       | 25.74               | 26.05                | 26.37                | 26.08                | 26.31                | 27                  | 0        |  |  |  |
| 10                   | 16QAM      | 1       | 24        | 25.81                       | 25.74               | 26.05                | 26.37                | 26.08                | 26.31                |                     |          |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 25.19                       | 25.89               | 26.31                | 26.44                | 26.40                | 26.48                |                     |          |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 25.63                       | 25.84               | 26.12                | 26.57                | 26.17                | 26.41                |                     |          |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 25.81                       | 25.13               | 25.46                | 25.72                | 25.42                | 25.37                | 26                  | 1        |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 25.32                       | 25.25               | 25.57                | 25.67                | 25.39                | 25.62                |                     |          |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 25.26                       | 25.28               | 25.56                | 25.76                | 25.44                | 25.52                |                     |          |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 25.38                       | 26.00               | 25.61                | 25.62                | 25.44                | 25.97                |                     |          |  |  |  |
| 10                   | 64QAM      | 1       | 0         | 25.25                       | 25.16               | 25.67                | 25.68                | 25.40                | 25.51                | 26                  | 1        |  |  |  |
| 10                   | 64QAM      | 1       | 25        | 25.37                       | 25.32               | 25.59                | 25.78                | 25.48                | 25.76                |                     |          |  |  |  |
| 10                   | 64QAM      | 1       | 49        | 25.47                       | 25.40               | 25.78                | 25.86                | 25.56                | 25.96                |                     |          |  |  |  |
| 10                   | 64QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46                | 24.66                | 24.36                | 24.59                |                     |          |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 24.23                       | 24.24               | 24.50                | 24.75                | 24.54                | 24.84                | 25                  | 2        |  |  |  |
| 10                   | 64QAM      | 25      | 25        | 24.20                       | 24.24               | 24.50                | 24.80                | 24.51                | 24.78                |                     |          |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 24.32                       | 24.22               | 24.66                | 24.79                | 24.43                | 24.72                |                     |          |  |  |  |
| 10                   | 256QAM     | 1       | 0         | 21.56                       | 22.04               | 22.05                | 22.61                | 22.54                | 22.40                | 23                  | 4        |  |  |  |
| 10                   | 256QAM     | 1       | 25        | 21.84                       | 22.01               | 22.09                | 22.63                | 22.30                | 22.54                |                     |          |  |  |  |
| 10                   | 256QAM     | 1       | 49        | 21.90                       | 21.97               | 21.98                | 22.58                | 22.23                | 22.47                |                     |          |  |  |  |
| 10                   | 256QAM     | 25      | 0         | 21.80                       | 21.99               | 22.13                | 22.65                | 22.40                | 22.48                | 23                  | 4        |  |  |  |
| 10                   | 256QAM     | 25      | 12        | 22.03                       | 22.12               | 21.96                | 22.84                | 22.29                | 22.56                |                     |          |  |  |  |
| 10                   | 256QAM     | 25      | 25        | 21.88                       | 22.02               | 22.05                | 22.64                | 22.17                | 22.49                |                     |          |  |  |  |
| 10                   | 256QAM     | 50      | 0         | 21.79                       | 21.83               | 22.05                | 22.52                | 22.29                | 22.52                |                     |          |  |  |  |
| Channel              |            |         |           |                             |                     |                      |                      |                      |                      |                     |          |  |  |  |
| Frequency (MHz)      |            |         |           | 39735                       | 39765               | 40148                | 40620                | 41093                | 41565                | Turn-up limit (dBm) | MPR (dB) |  |  |  |
| 5                    | QPSK       | 1       | 0         | 25.65                       | 25.47               | 25.82                | 26.15                | 25.77                | 26.26                | 27                  | 0        |  |  |  |
| 5                    | QPSK       | 1       | 25        | 25.63                       | 25.51               | 25.98                | 26.17                | 25.98                | 26.47                |                     |          |  |  |  |
| 5                    | QPSK       | 1       | 24        | 25.61                       | 25.53               | 25.91                | 26.09                | 25.76                | 26.32                | 27                  | 0        |  |  |  |
| 5                    | QPSK       | 12      | 0         | 25.48                       | 25.57               | 25.93                | 26.12                | 25.89                | 26.37                |                     |          |  |  |  |
| 5                    | QPSK       | 12      | 12        | 25.44                       | 25.52               | 25.84                | 26.12                | 25.83                | 26.30                |                     |          |  |  |  |
| 5                    | QPSK       | 12      | 13        | 25.59                       | 25.60               | 25.92                | 26.04                | 25.97                | 26.30                |                     |          |  |  |  |
| 5                    | QPSK       | 25      | 0         | 25.83                       | 25.64               | 25.99                | 26.23                | 25.97                | 26.33                | 27                  | 0        |  |  |  |
| 5                    | QPSK       | 1       | 0         | 25.74                       | 25.90               | 26.15                | 26.35                | 26.09                | 26.44                |                     |          |  |  |  |
| 5                    | QPSK       | 1       | 25        | 25.17                       | 25.85               | 26.17                | 26.48                | 26.17                | 26.49                |                     |          |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 25.85                       | 25.83               | 26.18                | 26.53                | 26.19                | 26.53                |                     |          |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 25.15                       | 25.16               | 25.38                | 25.73                | 25.49                | 25.43                | 26                  | 1        |  |  |  |
| 5                    | 16QAM      | 12      | 12        | 25.29                       | 25.33               | 25.53                | 25.76                | 25.56                | 25.49                |                     |          |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 25.22                       | 25.15               | 25.22                | 25.68                | 25.49                | 25.56                |                     |          |  |  |  |
| 5                    | 64QAM      | 1       | 0         | 25.16                       | 25.10               | 25.56                | 25.74                | 25.71                | 25.70                |                     |          |  |  |  |
| 5                    | 64QAM      | 1       | 25        | 25.28                       | 25.31               | 25.56                | 25.79                | 25.51                | 25.84                | 26                  | 1        |  |  |  |
| 5                    | 64QAM      | 1       | 24        | 25.40                       | 25.34               | 25.75                | 25.90                | 25.71                | 25.80                |                     |          |  |  |  |
| 5                    | 64QAM      | 12      | 0         | 24.15                       | 24.01               | 24.44                | 24.62                | 24.30                | 24.45                |                     |          |  |  |  |
| 5                    | 64QAM      | 12      | 7         | 24.23                       | 24.25               | 24.53                | 24.67                | 24.42                | 24.74                |                     |          |  |  |  |
| 5                    | 256QAM     | 1       | 0         | 22.27                       | 22.15               | 22.46                | 22.81                | 22.54                | 22.67                | 23                  | 4        |  |  |  |
| 5                    | 256QAM     | 1       | 24        | 24.21                       | 24.13               | 24.62                | 24.72                | 24.40                | 24.76                |                     |          |  |  |  |
| 5                    | 256QAM     | 1       | 0         | 22.06                       | 22.05               | 22.09                | 22.80                | 22.55                | 22.50                |                     |          |  |  |  |
| 5                    | 256QAM     | 12      | 12        | 21.79                       | 22.04               | 22.10                | 22.83                | 22.33                | 22.30                |                     |          |  |  |  |
| 5                    | 256QAM     | 1       | 24        | 21.92                       | 22.04               | 22.18                | 22.86                | 22.23                | 22.62                | 23                  | 4        |  |  |  |
| 5                    | 256QAM     | 1       | 0         | 21.76                       | 22.06               | 22.06                | 22.81                | 22.32                | 22.52                |                     |          |  |  |  |
| 5                    | 256QAM     | 12      | 7         | 22.03                       | 22.14               | 21.89                | 22.47                | 22.34                | 22.44                |                     |          |  |  |  |
| 5                    | 256QAM     | 12      | 13        | 21.76                       | 22.12               | 22.15                | 22.85                | 22.41                | 22.40                |                     |          |  |  |  |
| 5                    | 256QAM     | 25      | 0         | 21.84                       | 21.99               | 22.04                | 22.61                | 22.24                | 22.44                |                     |          |  |  |  |

| Band 41_Ant 2   |            |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |
|-----------------|------------|---------|-----------|---------------------------|--------------------|------------------------|-------------------------|---------------------|---------------------|-------------------|----------|----|---|
| BW [MHz]        | Modulation | RB Size | RB Offset | Fat IC Power Low Ch./Freq | Power Low Ch./Freq | Power Low Mid Ch./Freq | Power Low High Ch./Freq | Power High Ch./Freq | Power High Ch./Freq | Turn-on time (ms) | MPR (dB) |    |   |
| Channel         |            |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |
| Frequency (MHz) |            |         |           | 39750                     | 39750              | 40165                  | 40620                   | 41055               | 41490               |                   |          |    |   |
| 20              | QPSK       | 1       | 0         | 2510                      | 2506               | 2549.5                 | 2593                    | 2636.5              | 2680                |                   |          |    |   |
| 20              | QPSK       | 1       | 49        | 2332                      | 2336               | 2322                   | 2335                    | 2333                | 2333                |                   |          | 24 | 0 |
| 20              | QPSK       | 1       | 99        | 2338                      | 2335               | 2327                   | 2347                    | 2327                | 2333                |                   |          |    |   |
| 20              | QPSK       | 50      | 0         | 2321                      | 2315               | 2343                   | 2349                    | 2332                | 2338                |                   |          | 24 | 0 |
| 20              | QPSK       | 50      | 24        | 2318                      | 2311               | 2343                   | 2345                    | 2307                | 2324                |                   |          |    |   |
| 20              | QPSK       | 50      | 50        | 2338                      | 2332               | 2331                   | 2348                    | 2332                | 2338                |                   |          |    |   |
| 20              | QPSK       | 100     | 0         | 2338                      | 2330               | 2340                   | 2347                    | 2330                | 2332                |                   |          |    |   |
| 20              | 16QAM      | 1       | 0         | 2330                      | 2333               | 2333                   | 2351                    | 2335                | 2335                |                   |          |    |   |
| 20              | 16QAM      | 1       | 49        | 2336                      | 2336               | 2334                   | 2345                    | 2336                | 2336                |                   |          | 24 | 0 |
| 20              | 16QAM      | 1       | 99        | 2332                      | 2332               | 2343                   | 2345                    | 2339                | 2339                |                   |          |    |   |
| 20              | 16QAM      | 50      | 0         | 2211                      | 2207               | 2231                   | 2247                    | 2237                | 2238                |                   |          | 23 | 1 |
| 20              | 16QAM      | 50      | 24        | 2227                      | 2221               | 2246                   | 2252                    | 2239                | 2242                |                   |          |    |   |
| 20              | 16QAM      | 50      | 50        | 2224                      | 2223               | 2246                   | 2252                    | 2237                | 2248                |                   |          |    |   |
| 20              | 16QAM      | 100     | 0         | 2223                      | 2223               | 2243                   | 2251                    | 2232                | 2236                |                   |          |    |   |
| 20              | 64QAM      | 1       | 0         | 2187                      | 2198               | 2212                   | 2231                    | 2202                | 2215                |                   |          |    |   |
| 20              | 64QAM      | 1       | 49        | 2298                      | 2291               | 2222                   | 2245                    | 2193                | 2221                |                   |          | 23 | 1 |
| 20              | 64QAM      | 1       | 99        | 2207                      | 2214               | 2229                   | 2243                    | 2198                | 2242                |                   |          |    |   |
| 20              | 64QAM      | 50      | 0         | 2133                      | 2139               | 2133                   | 2146                    | 2111                | 2125                |                   |          | 22 | 2 |
| 20              | 64QAM      | 50      | 24        | 2124                      | 2124               | 2145                   | 2153                    | 2134                | 2141                |                   |          |    |   |
| 20              | 64QAM      | 50      | 50        | 2119                      | 2119               | 2148                   | 2154                    | 2107                | 2144                |                   |          |    |   |
| 20              | 64QAM      | 100     | 0         | 2120                      | 2120               | 2143                   | 2153                    | 2114                | 2142                |                   |          |    |   |
| 20              | 256QAM     | 1       | 0         | 1876                      | 1874               | 1890                   | 1921                    | 1882                | 1895                |                   |          | 20 | 4 |
| 20              | 256QAM     | 1       | 49        | 1879                      | 1888               | 1884                   | 1915                    | 1878                | 1880                |                   |          |    |   |
| 20              | 256QAM     | 1       | 99        | 1871                      | 1879               | 1875                   | 1901                    | 1882                | 1895                |                   |          |    |   |
| 20              | 256QAM     | 50      | 0         | 1867                      | 1866               | 1864                   | 1869                    | 1865                | 1887                |                   |          | 20 | 4 |
| 20              | 256QAM     | 50      | 24        | 1863                      | 1864               | 1861                   | 1909                    | 1877                | 1876                |                   |          |    |   |
| 20              | 256QAM     | 50      | 50        | 1866                      | 1867               | 1864                   | 1915                    | 1880                | 1885                |                   |          |    |   |
| 20              | 256QAM     | 100     | 0         | 1876                      | 1868               | 1860                   | 1906                    | 1862                | 1862                |                   |          |    |   |
| Channel         |            |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |
| Frequency (MHz) |            |         |           | 39757.5                   | 39757.5            | 40162.5                | 40620                   | 41058               | 41515               | Turn-on time (ms) | MPR (dB) |    |   |
| 15              | QPSK       | 1       | 0         | 2282                      | 2287               | 2303                   | 2330                    | 2300                | 2300                |                   |          |    |   |
| 15              | QPSK       | 1       | 37        | 2295                      | 2294               | 2325                   | 2334                    | 2299                | 2333                |                   |          |    |   |
| 15              | QPSK       | 1       | 74        | 2307                      | 2299               | 2314                   | 2338                    | 2292                | 2338                |                   |          |    |   |
| 15              | QPSK       | 36      | 0         | 2306                      | 2312               | 2314                   | 2340                    | 2334                | 2338                |                   |          |    |   |
| 15              | QPSK       | 36      | 36        | 2306                      | 2307               | 2327                   | 2333                    | 2326                | 2330                |                   |          | 24 | 0 |
| 15              | QPSK       | 36      | 36        | 2295                      | 2300               | 2314                   | 2338                    | 2294                | 2332                |                   |          |    |   |
| 15              | 16QAM      | 1       | 0         | 2128                      | 2127               | 2145                   | 2152                    | 2133                | 2142                |                   |          |    |   |
| 15              | 16QAM      | 1       | 37        | 2299                      | 2287               | 2330                   | 2340                    | 2296                | 2338                |                   |          |    |   |
| 15              | 16QAM      | 1       | 74        | 2300                      | 2301               | 2338                   | 2331                    | 2286                | 2337                |                   |          |    |   |
| 15              | 16QAM      | 36      | 0         | 2195                      | 2195               | 2213                   | 2229                    | 2201                | 2218                |                   |          |    |   |
| 15              | 16QAM      | 36      | 36        | 2201                      | 2205               | 2222                   | 2232                    | 2200                | 2237                |                   |          | 23 | 1 |
| 15              | 16QAM      | 75      | 0         | 2219                      | 2213               | 2226                   | 2234                    | 2197                | 2224                |                   |          |    |   |
| 15              | 64QAM      | 1       | 0         | 2126                      | 2126               | 2146                   | 2153                    | 2134                | 2142                |                   |          | 23 | 1 |
| 15              | 64QAM      | 1       | 37        | 2296                      | 2295               | 2326                   | 2327                    | 2293                | 2327                |                   |          |    |   |
| 15              | 64QAM      | 1       | 74        | 2191                      | 2211               | 2219                   | 2233                    | 2179                | 2232                |                   |          |    |   |
| 15              | 64QAM      | 36      | 0         | 2163                      | 2088               | 2115                   | 2135                    | 2098                | 2131                |                   |          | 22 | 2 |
| 15              | 64QAM      | 36      | 36        | 2168                      | 2163               | 2182                   | 2193                    | 2164                | 2188                |                   |          |    |   |
| 15              | 64QAM      | 36      | 36        | 2099                      | 2115               | 2137                   | 2145                    | 2091                | 2134                |                   |          |    |   |
| 15              | 256QAM     | 1       | 0         | 2117                      | 2119               | 2133                   | 2145                    | 2103                | 2128                |                   |          |    |   |
| 15              | 256QAM     | 1       | 49        | 1863                      | 1859               | 1869                   | 1907                    | 1877                | 1884                |                   |          |    |   |
| 15              | 256QAM     | 1       | 99        | 1863                      | 1864               | 1864                   | 1897                    | 1866                | 1869                |                   |          | 20 | 4 |
| 15              | 256QAM     | 50      | 0         | 1863                      | 1864               | 1864                   | 1897                    | 1866                | 1869                |                   |          |    |   |
| 15              | 256QAM     | 50      | 24        | 1863                      | 1866               | 1863                   | 1866                    | 1868                | 1883                |                   |          |    |   |
| 15              | 256QAM     | 50      | 50        | 1865                      | 1868               | 1864                   | 1904                    | 1854                | 1872                |                   |          |    |   |
| 15              | 256QAM     | 100     | 0         | 1865                      | 1866               | 1862                   | 1865                    | 1864                | 1882                |                   |          |    |   |
| 15              | 256QAM     | 36      | 36        | 1858                      | 1855               | 1863                   | 1901                    | 1870                | 1865                |                   |          | 20 | 4 |
| 15              | 256QAM     | 75      | 0         | 1858                      | 1863               | 1858                   | 1893                    | 1845                | 1874                |                   |          |    |   |
| Channel         |            |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |
| Frequency (MHz) |            |         |           | 39740                     | 39740              | 40160                  | 40620                   | 41080               | 41540               | Turn-on time (ms) | MPR (dB) |    |   |
| 10              | QPSK       | 1       | 0         | 2297                      | 2305               | 2315                   | 2315                    | 2287                | 2324                |                   |          |    |   |
| 10              | QPSK       | 1       | 25        | 2308                      | 2301               | 2330                   | 2333                    | 2293                | 2330                |                   |          | 24 | 0 |
| 10              | QPSK       | 1       | 49        | 2305                      | 2298               | 2321                   | 2336                    | 2289                | 2332                |                   |          |    |   |
| 10              | QPSK       | 12      | 0         | 2308                      | 2317               | 2345                   | 2338                    | 2297                | 2332                |                   |          |    |   |
| 10              | QPSK       | 25      | 12        | 2310                      | 2310               | 2330                   | 2336                    | 2291                | 2325                |                   |          |    |   |
| 10              | QPSK       | 25      | 25        | 2298                      | 2307               | 2328                   | 2338                    | 2298                | 2325                |                   |          |    |   |
| 10              | QPSK       | 50      | 0         | 2312                      | 2304               | 2333                   | 2339                    | 2298                | 2322                |                   |          |    |   |
| 10              | QPSK       | 50      | 24        | 2297                      | 2306               | 2335                   | 2339                    | 2297                | 2322                |                   |          |    |   |
| 10              | 16QAM      | 1       | 0         | 2312                      | 2305               | 2335                   | 2340                    | 2297                | 2322                |                   |          |    |   |
| 10              | 16QAM      | 1       | 25        | 2314                      | 2308               | 2338                   | 2342                    | 2294                | 2321                |                   |          |    |   |
| 10              | 16QAM      | 1       | 49        | 2292                      | 2307               | 2331                   | 2331                    | 2281                | 2321                |                   |          |    |   |
| 10              | 16QAM      | 12      | 0         | 2316                      | 2317               | 2345                   | 2338                    | 2297                | 2322                |                   |          |    |   |
| 10              | 16QAM      | 25      | 12        | 2313                      | 2307               | 2327                   | 2340                    | 2293                | 2326                |                   |          | 23 | 1 |
| 10              | 16QAM      | 25      | 25        | 2297                      | 2313               | 2343                   | 2351                    | 2193                | 2325                |                   |          |    |   |
| 10              | 16QAM      | 50      | 0         | 2315                      | 2304               | 2326                   | 2331                    | 2194                | 2219                |                   |          |    |   |
| 10              | 16QAM      | 50      | 24        | 2316                      | 2313               | 2342                   | 2337                    | 2297                | 2322                |                   |          |    |   |
| 10              | 64QAM      | 1       | 0         | 2297                      | 2199               | 2219                   | 2230                    | 2144                | 2205                |                   |          |    |   |
| 10              | 64QAM      | 1       | 49        | 2199                      | 2200               | 2224                   | 2239                    | 2197                | 2224                |                   |          |    |   |
| 10              | 64QAM      | 12      | 0         | 2097                      | 2091               | 2122                   | 2139                    | 2091                | 2119                |                   |          |    |   |
| 10              | 64QAM      | 25      | 12        | 2121                      | 2120               | 2141                   | 2150                    | 2098                | 2124                |                   |          | 22 | 2 |
| 10              | 64QAM      | 25      | 25        | 2102                      | 2113               | 2138                   | 2144                    | 2106                | 2140                |                   |          |    |   |
| 10              | 64QAM      | 50      | 0         | 2104                      | 2104               | 2141                   | 2152                    | 2096                | 2133                |                   |          |    |   |
| 10              | 256QAM     | 1       | 0         | 1868                      | 1855               | 1862                   | 1915                    | 1876                | 1892                |                   |          | 20 | 4 |
| 10              | 256QAM     | 1       | 25        | 1852                      | 1855               | 1860                   | 1903                    | 1869                | 1879                |                   |          |    |   |
| 10              | 256QAM     | 1       | 49        | 1854                      | 1846               | 1844                   | 1881                    | 1859                | 1884                |                   |          |    |   |
| 10              | 256QAM     | 25      | 0         | 1862                      | 1856               | 1860                   | 1894                    | 1863                | 1882                |                   |          |    |   |
| 10              | 256QAM     | 25      | 12        | 1852                      | 1847               | 1839                   | 1896                    | 1869                | 1879                |                   |          | 20 | 4 |
| 10              | 256QAM     | 25      | 25        | 1853                      | 1838               | 1839                   | 1905                    | 1868                | 1879                |                   |          |    |   |
| 10              | 256QAM     | 50      | 0         | 1867                      | 1859               | 1841                   | 1864                    | 1860                | 1870                |                   |          |    |   |
| Channel         |            |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |
| Frequency (MHz) |            |         |           | 39715                     | 39715              | 40161                  | 40620                   | 41093               | 41550               | Turn-on time (ms) | MPR (dB) |    |   |
| 5               | QPSK       | 1       | 0         | 2287                      | 2282               | 2320                   | 2331                    | 2292                | 2332                |                   |          |    |   |
| 5               | QPSK       | 1       | 12        | 2302                      | 2305               | 2331                   | 2349                    | 2293                | 2332                |                   |          |    |   |
| 5               | QPSK       | 1       | 24        | 2292                      | 2290               | 2320                   | 2327                    | 2289                | 2332                |                   |          |    |   |
| 5               | QPSK       | 12      | 0         | 2313                      | 2305               | 2336                   | 2341                    | 2307                | 2338                |                   |          |    |   |
| 5               | QPSK       | 12      | 7         | 2310                      | 2309               | 2337                   | 2332                    | 2292                | 2308                |                   |          |    |   |
| 5               | QPSK       | 12      | 13        | 2297                      | 2298               | 2323                   | 2330                    | 2286                | 2318                |                   |          |    |   |
| 5               | QPSK       | 26      | 0         | 2317                      | 2330               | 2330                   | 2327                    | 2308                | 2314                |                   |          |    |   |
| 5               | 16QAM      | 1       | 0         | 2281                      | 2301               | 2318                   | 2345                    | 2209                | 2331                |                   |          |    |   |
| 5               | 16QAM      | 1       | 12        | 2303                      | 2288               | 2322                   | 2337                    | 2292                | 2318                |                   |          |    |   |
| 5               | 16QAM      | 1       | 24        | 2295                      | 2301               | 2341                   | 2339                    | 2283                | 2315                |                   |          |    |   |
| 5               | 16QAM      | 12      | 0         | 2292                      | 2187               | 2211                   | 2240                    | 2199                | 2213                |                   |          |    |   |
| 5               | 16QAM      | 12      | 7         | 2213                      | 2209               | 2244                   | 2250                    | 2213                | 2232                |                   |          | 23 | 1 |
| 5               | 16QAM      | 12      | 13        | 2216                      | 2206               | 2234                   | 2244                    | 2188                | 2240                |                   |          |    |   |
| 5               | 16QAM      | 26      | 0         | 2211                      | 2207               | 2326                   | 2327                    | 2303                | 2319                |                   |          |    |   |
| 5               | 64QAM      | 1       | 0         | 2184                      | 2195               | 2209                   | 2227                    | 2194                | 2211                |                   |          |    |   |
| 5               | 64QAM      | 1       | 12        | 2192                      | 2190               | 2210                   | 2225                    | 2183                | 2216                |                   |          | 23 | 1 |
| 5               | 64QAM      | 1       | 24        | 2195                      | 2194               | 2226                   | 2230                    | 2191                | 2239                |                   |          |    |   |
| 5               | 64QAM      | 12      | 0         | 2195                      | 2199               | 2210                   | 2235                    | 2193                | 2232                |                   |          |    |   |
| 5               | 64QAM      | 12      | 7         | 2108                      | 2113               | 2137                   | 2134                    | 2099                | 2138                |                   |          | 22 | 2 |
| 5               | 64QAM      | 12      | 13        | 2101                      | 2108               | 2145                   | 2145                    | 2105                | 2139                |                   |          |    |   |
| 5               | 64QAM      | 26      | 0         | 2116                      | 2107               | 2134                   | 2136                    | 2107                | 2134                |                   |          |    |   |
| 5               | 256QAM     | 1       |           | 1863                      | 1862               | 1864                   | 1918                    | 1871                | 1877                |                   |          |    |   |
| 5               | 256QAM     | 1       | 12        | 1855                      | 1847               | 1858                   | 1913                    | 1875                | 1867                |                   |          | 20 | 4 |
| 5               | 256QAM     | 1       | 24        | 1860                      | 1852               | 1858                   | 1885                    | 1868                | 1869                |                   |          |    |   |
| 5               | 256QAM     | 12      | 0         | 1863                      | 1849               | 1849                   | 1908                    | 1860                | 1869                |                   |          |    |   |
| 5               | 256QAM     | 12      | 13        | 1850                      | 1848               | 1851                   | 1901                    | 1870                | 1861                |                   |          | 20 | 4 |
| 5               | 256QAM     | 12      | 26        | 1820                      | 1838               | 1837                   | 1901                    | 1862                | 1876                |                   |          |    |   |
| 5               | 256QAM</   |         |           |                           |                    |                        |                         |                     |                     |                   |          |    |   |

| Band 41 (HPUE)_Ant 6 |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                    |          |   |      |   |  |
|----------------------|------------|---------|-----------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|--------------------|----------|---|------|---|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Turn-on time (dBm) | MPR (dB) |   |      |   |  |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                    |          |   |      |   |  |
| Frequency (MHz)      |            |         |           | 39750               | 39750                | 40185               | 40620                | 41055               | 41490                |                     |                      |                    |          |   |      |   |  |
| Frequency (MHz)      |            |         |           | 2510                | 2506                 | 2549.5              | 2593                 | 2636.5              | 2680                 |                     |                      |                    |          |   |      |   |  |
| 20                   | QPSK       | 1       | 0         | 24.15               | 24.07                | 24.01               | 24.22                | 24.11               | 24.18                | 25                  | 0                    | 25.1               | 0        |   |      |   |  |
| 20                   | QPSK       | 1       | 48        | 24.15               | 24.14                | 24.11               | 24.35                | 24.12               | 24.25                |                     |                      |                    |          |   |      |   |  |
| 20                   | QPSK       | 1       | 96        | 24.14               | 24.02                | 24.09               | 24.32                | 24.02               | 24.14                |                     |                      |                    |          |   |      |   |  |
| 20                   | QPSK       | 50      | 0         | 23.41               | 23.40                | 23.43               | 23.59                | 23.52               | 23.58                |                     |                      |                    |          |   |      |   |  |
| 20                   | QPSK       | 50      | 24        | 23.38               | 23.32                | 23.47               | 23.51                | 23.50               | 23.32                |                     |                      |                    |          |   |      |   |  |
| 20                   | QPSK       | 50      | 50        | 23.40               | 23.46                | 23.42               | 23.57                | 23.44               | 23.49                | 25                  | 0.1                  | 25                 | 0.1      |   |      |   |  |
| 20                   | QPSK       | 100     | 0         | 23.43               | 23.42                | 23.54               | 23.59                | 23.50               | 23.51                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 1       | 0         | 23.56               | 23.48                | 23.47               | 23.67                | 23.46               | 23.61                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 1       | 48        | 23.57               | 23.54                | 23.58               | 23.73                | 23.54               | 23.67                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 1       | 96        | 23.54               | 23.43                | 23.52               | 23.79                | 23.42               | 23.58                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 50      | 0         | 22.87               | 22.83                | 22.60               | 22.65                | 22.57               | 22.38                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 20                   | 16QAM      | 50      | 24        | 22.88               | 22.68                | 22.78               | 22.58                | 22.55               | 22.73                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 50      | 50        | 22.81               | 22.66                | 22.70               | 22.68                | 22.68               | 22.81                |                     |                      |                    |          |   |      |   |  |
| 20                   | 16QAM      | 100     | 0         | 22.58               | 22.56                | 22.65               | 22.58                | 22.61               | 22.58                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 1       | 0         | 22.71               | 22.61                | 22.60               | 22.87                | 22.61               | 22.61                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 1       | 48        | 22.79               | 22.86                | 22.76               | 22.57                | 22.86               | 22.35                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 20                   | 64QAM      | 1       | 96        | 22.57               | 22.43                | 22.62               | 23.04                | 22.59               | 22.73                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 50      | 0         | 21.83               | 21.58                | 21.63               | 21.67                | 21.56               | 21.47                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 50      | 24        | 21.70               | 21.85                | 21.85               | 21.83                | 21.47               | 21.71                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 50      | 50        | 21.87               | 21.87                | 21.78               | 21.83                | 21.67               | 21.84                |                     |                      |                    |          |   |      |   |  |
| 20                   | 64QAM      | 100     | 0         | 21.66               | 21.60                | 21.59               | 21.82                | 21.63               | 21.63                | 23                  | 2.1                  | 23                 | 2.1      |   |      |   |  |
| 20                   | 256QAM     | 1       | 0         | 19.23               | 19.20                | 19.24               | 19.42                | 19.30               | 19.31                |                     |                      |                    |          |   |      |   |  |
| 20                   | 256QAM     | 1       | 48        | 19.29               | 19.22                | 19.31               | 19.49                | 19.40               | 19.40                |                     |                      |                    |          |   |      |   |  |
| 20                   | 256QAM     | 1       | 96        | 19.24               | 19.29                | 19.34               | 19.43                | 19.39               | 19.37                |                     |                      |                    |          |   |      |   |  |
| 20                   | 256QAM     | 50      | 0         | 19.30               | 19.26                | 19.25               | 19.48                | 19.35               | 19.41                |                     |                      |                    |          |   |      |   |  |
| 20                   | 256QAM     | 50      | 24        | 19.32               | 19.23                | 19.33               | 19.46                | 19.31               | 19.41                | 21                  | 4.1                  | 21                 | 4.1      |   |      |   |  |
| 20                   | 256QAM     | 50      | 50        | 19.25               | 19.22                | 19.36               | 19.46                | 19.32               | 19.37                |                     |                      |                    |          |   |      |   |  |
| 20                   | 256QAM     | 100     | 0         | 19.29               | 19.27                | 19.33               | 19.52                | 19.40               | 19.38                |                     |                      |                    |          |   |      |   |  |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                    |          |   |      |   |  |
| Frequency (MHz)      |            |         |           | 39755               | 39725                | 40173               | 40620                | 41068               | 41515                |                     |                      |                    |          |   |      |   |  |
| 15                   | QPSK       | 1       | 0         | 24.14               | 24.04                | 24.00               | 24.18                | 24.10               | 24.03                | 25                  |                      |                    |          | 0 | 25.1 | 0 |  |
| 15                   | QPSK       | 1       | 37        | 24.12               | 24.06                | 24.09               | 24.23                | 24.01               | 24.18                |                     |                      |                    |          |   |      |   |  |
| 15                   | QPSK       | 1       | 74        | 24.06               | 23.90                | 24.05               | 24.30                | 23.98               | 24.05                |                     |                      |                    |          |   |      |   |  |
| 15                   | QPSK       | 36      | 0         | 23.26               | 23.35                | 23.47               | 23.56                | 23.51               | 23.51                |                     |                      |                    |          |   |      |   |  |
| 15                   | QPSK       | 36      | 20        | 23.23               | 23.27                | 23.34               | 23.35                | 23.40               | 23.35                |                     |                      |                    |          |   |      |   |  |
| 15                   | QPSK       | 36      | 36        | 23.27               | 23.31                | 23.32               | 23.50                | 23.31               | 23.39                | 25                  | 0.1                  | 25                 | 0.1      |   |      |   |  |
| 15                   | QPSK       | 75      | 0         | 23.34               | 23.36                | 23.45               | 23.44                | 23.37               | 23.45                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 1       | 0         | 23.56               | 23.46                | 23.50               | 23.69                | 23.40               | 23.63                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 1       | 37        | 23.51               | 23.56                | 23.55               | 23.75                | 23.57               | 23.65                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 1       | 74        | 23.52               | 23.38                | 23.50               | 23.77                | 23.46               | 23.49                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 36      | 0         | 22.85               | 22.80                | 22.87               | 22.82                | 22.45               | 22.30                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 15                   | 16QAM      | 36      | 20        | 22.99               | 22.83                | 22.72               | 22.95                | 22.82               | 22.61                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 36      | 36        | 22.50               | 22.63                | 22.66               | 22.65                | 22.59               | 22.60                |                     |                      |                    |          |   |      |   |  |
| 15                   | 16QAM      | 75      | 0         | 22.47               | 22.47                | 22.63               | 22.47                | 22.57               | 22.51                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 1       | 0         | 22.58               | 22.62                | 22.61               | 22.79                | 22.46               | 22.67                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 1       | 37        | 22.73               | 22.77                | 22.70               | 22.73                | 22.80               | 22.76                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 15                   | 64QAM      | 1       | 74        | 22.48               | 22.31                | 22.53               | 22.93                | 22.52               | 22.62                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 36      | 0         | 21.56               | 21.48                | 21.52               | 21.97                | 21.47               | 21.42                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 36      | 20        | 21.60               | 21.47                | 21.54               | 21.58                | 21.43               | 21.65                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 36      | 36        | 21.45               | 21.48                | 21.67               | 21.52                | 21.56               | 21.58                |                     |                      |                    |          |   |      |   |  |
| 15                   | 64QAM      | 75      | 0         | 21.80               | 21.54                | 21.48               | 21.41                | 21.56               | 21.57                | 23                  | 2.1                  | 23                 | 2.1      |   |      |   |  |
| 15                   | 256QAM     | 1       | 0         | 19.15               | 19.16                | 19.19               | 19.39                | 19.18               | 19.20                |                     |                      |                    |          |   |      |   |  |
| 15                   | 256QAM     | 1       | 37        | 19.22               | 19.10                | 19.23               | 19.42                | 19.33               | 19.35                |                     |                      |                    |          |   |      |   |  |
| 15                   | 256QAM     | 1       | 74        | 19.13               | 19.25                | 19.22               | 19.34                | 19.27               | 19.25                |                     |                      |                    |          |   |      |   |  |
| 15                   | 256QAM     | 36      | 0         | 19.20               | 19.22                | 19.19               | 19.41                | 19.28               | 19.38                |                     |                      |                    |          |   |      |   |  |
| 15                   | 256QAM     | 36      | 20        | 19.23               | 19.12                | 19.25               | 19.41                | 19.24               | 19.33                | 21                  | 4.1                  | 21                 | 4.1      |   |      |   |  |
| 15                   | 256QAM     | 36      | 36        | 19.22               | 19.14                | 19.25               | 19.35                | 19.24               | 19.28                |                     |                      |                    |          |   |      |   |  |
| 15                   | 256QAM     | 75      | 0         | 19.19               | 19.19                | 19.25               | 19.44                | 19.35               | 19.24                |                     |                      |                    |          |   |      |   |  |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                    |          |   |      |   |  |
| Frequency (MHz)      |            |         |           | 39740               | 39700                | 40160               | 40620                | 41080               | 41540                |                     |                      |                    |          |   |      |   |  |
| 10                   | QPSK       | 1       | 0         | 24.00               | 23.95                | 23.95               | 24.12                | 24.02               | 24.08                | 25                  | 0.1                  | 25.1               | 0        |   |      |   |  |
| 10                   | QPSK       | 1       | 25        | 24.10               | 24.11                | 23.98               | 24.26                | 24.01               | 24.23                |                     |                      |                    |          |   |      |   |  |
| 10                   | QPSK       | 1       | 49        | 24.02               | 24.01                | 24.04               | 24.23                | 23.89               | 24.04                |                     |                      |                    |          |   |      |   |  |
| 10                   | QPSK       | 24      | 0         | 23.28               | 23.48                | 23.34               | 23.47                | 23.45               | 23.48                |                     |                      |                    |          |   |      |   |  |
| 10                   | QPSK       | 25      | 12        | 23.33               | 23.27                | 23.37               | 23.47                | 23.48               | 23.30                |                     |                      |                    |          |   |      |   |  |
| 10                   | QPSK       | 25      | 25        | 23.33               | 23.38                | 23.38               | 23.44                | 23.38               | 23.42                | 25                  | 0.1                  | 25                 | 0.1      |   |      |   |  |
| 10                   | QPSK       | 50      | 0         | 23.37               | 23.36                | 23.44               | 23.55                | 23.47               | 23.39                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 1       | 0         | 23.64               | 23.45                | 23.41               | 23.69                | 23.52               | 23.51                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 1       | 25        | 23.64               | 23.63                | 23.53               | 23.77                | 23.52               | 23.68                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 1       | 49        | 23.50               | 23.38                | 23.51               | 23.78                | 23.46               | 23.63                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 25      | 0         | 22.96               | 22.96                | 22.94               | 23.11                | 22.94               | 22.95                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 10                   | 16QAM      | 25      | 12        | 22.96               | 22.99                | 22.97               | 22.94                | 22.43               | 22.85                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 25      | 25        | 22.92               | 22.82                | 22.82               | 22.60                | 22.59               | 22.76                |                     |                      |                    |          |   |      |   |  |
| 10                   | 16QAM      | 50      | 0         | 22.95               | 22.90                | 22.85               | 22.94                | 22.58               | 22.45                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 1       | 0         | 22.96               | 22.96                | 22.95               | 23.22                | 22.43               | 22.57                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 1       | 25        | 22.88               | 22.76                | 22.85               | 22.92                | 22.78               | 22.35                | 24                  | 1.1                  | 24                 | 1.1      |   |      |   |  |
| 10                   | 64QAM      | 1       | 49        | 22.91               | 22.34                | 22.60               | 22.99                | 22.82               | 22.88                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 25      | 0         | 21.99               | 21.61                | 21.58               | 21.64                | 21.49               | 21.43                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 25      | 12        | 21.95               | 21.49                | 21.77               | 21.59                | 21.41               | 21.60                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 25      | 25        | 21.52               | 21.47                | 21.75               | 21.57                | 21.62               | 21.56                |                     |                      |                    |          |   |      |   |  |
| 10                   | 64QAM      | 50      | 0         | 21.63               | 21.63                | 21.51               | 21.49                | 21.67               | 21.69                | 23                  | 2.1                  | 23                 | 2.1      |   |      |   |  |
| 10                   | 256QAM     | 1       | 0         | 19.13               | 19.11                | 19.20               | 19.33                | 19.18               | 19.21                |                     |                      |                    |          |   |      |   |  |
| 10                   | 256QAM     | 1       | 25        | 19.26               | 19.13                | 19.26               | 19.44                | 19.33               | 19.32                |                     |                      |                    |          |   |      |   |  |
| 10                   | 256QAM     | 1       | 49        | 19.18               | 19.17                | 19.31               | 19.36                | 19.36               | 19.27                |                     |                      |                    |          |   |      |   |  |
| 10                   | 256QAM     | 25      | 0         | 19.25               | 19.23                | 19.20               | 19.40                | 19.23               | 19.30                |                     |                      |                    |          |   |      |   |  |
| 10                   | 256QAM     | 25      | 12        | 19.26               | 19.14                | 19.21               | 19.35                | 19.22               | 19.38                | 21                  | 4.1                  | 21                 | 4.1      |   |      |   |  |
| 10                   | 256        |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                    |          |   |      |   |  |

| Band 48_Ant 10 |                 |          |            |                       |                        |                        |                        |                        |                    |          |  |  |
|----------------|-----------------|----------|------------|-----------------------|------------------------|------------------------|------------------------|------------------------|--------------------|----------|--|--|
| BW (MHz)       | Modulation      | RIS rate | RIS offset | Power Low Power (dBm) | Power High Power (dBm) | Power High Power (dBm) | Power High Power (dBm) | Power High Power (dBm) | Turn-on time (sec) | APR (dB) |  |  |
| Channel        |                 |          |            |                       |                        |                        |                        |                        |                    |          |  |  |
|                | Frequency (MHz) |          |            | 55340                 | 55630                  | 55630                  | 55630                  | 55630                  |                    |          |  |  |
|                |                 |          |            | 3609                  | 3669                   | 3669                   | 3669                   | 3669                   |                    |          |  |  |
| 20             | QPSK            | 1        | 0          | 22.62                 | 22.71                  | 22.54                  | 22.41                  | 22.29                  |                    |          |  |  |
| 20             | QPSK            | 1        | 49         | 22.63                 | 22.50                  | 22.54                  | 22.71                  |                        | 24                 | 0        |  |  |
| 20             | QPSK            | 1        | 99         | 22.73                 | 22.68                  | 22.80                  | 22.87                  |                        |                    |          |  |  |
| 20             | QPSK            | 1        | 149        | 22.78                 | 22.88                  | 22.90                  | 22.97                  |                        |                    |          |  |  |
| 20             | QPSK            | 50       | 24         | 22.73                 | 22.80                  | 22.69                  | 22.78                  |                        | 24                 | 0        |  |  |
| 20             | QPSK            | 50       | 74         | 22.75                 | 22.83                  | 22.63                  | 22.77                  |                        |                    |          |  |  |
| 20             | QPSK            | 100      | 24         | 22.74                 | 22.78                  | 22.69                  | 22.78                  |                        |                    |          |  |  |
| 20             | 16QAM           | 1        | 0          | 22.69                 | 22.78                  | 22.68                  | 22.78                  |                        |                    |          |  |  |
| 20             | 16QAM           | 1        | 49         | 22.71                 | 22.76                  | 22.69                  | 22.79                  |                        | 24                 | 0        |  |  |
| 20             | 16QAM           | 1        | 99         | 22.68                 | 22.76                  | 22.66                  | 22.75                  |                        |                    |          |  |  |
| 20             | 16QAM           | 1        | 149        | 22.63                 | 22.42                  | 22.61                  | 22.40                  |                        |                    |          |  |  |
| 20             | 16QAM           | 50       | 24         | 22.48                 | 22.55                  | 22.44                  | 22.52                  |                        | 23.5               | 0.5      |  |  |
| 20             | 16QAM           | 50       | 74         | 22.46                 | 22.53                  | 22.41                  | 22.56                  |                        |                    |          |  |  |
| 20             | 16QAM           | 100      | 24         | 22.40                 | 22.49                  | 22.38                  | 22.47                  |                        |                    |          |  |  |
| 20             | 64QAM           | 1        | 0          | 22.35                 | 22.38                  | 22.30                  | 22.40                  |                        |                    |          |  |  |
| 20             | 64QAM           | 1        | 49         | 22.40                 | 22.50                  | 22.36                  | 22.42                  |                        | 23.5               | 0.5      |  |  |
| 20             | 64QAM           | 1        | 99         | 22.42                 | 22.31                  | 22.25                  | 22.33                  |                        |                    |          |  |  |
| 20             | 64QAM           | 1        | 149        | 22.17                 | 22.48                  | 22.19                  | 22.49                  |                        |                    |          |  |  |
| 20             | 64QAM           | 50       | 24         | 21.42                 | 21.46                  | 21.38                  | 21.45                  |                        | 22.5               | 1.5      |  |  |
| 20             | 64QAM           | 50       | 74         | 21.45                 | 21.56                  | 21.41                  | 21.52                  |                        |                    |          |  |  |
| 20             | 64QAM           | 100      | 24         | 21.48                 | 21.53                  | 21.40                  | 21.47                  |                        |                    |          |  |  |
| 20             | 256QAM          | 1        | 0          | 19.29                 | 19.31                  | 19.27                  | 19.38                  |                        |                    |          |  |  |
| 20             | 256QAM          | 1        | 49         | 19.35                 | 19.39                  | 19.23                  | 19.37                  |                        | 20.5               | 3.5      |  |  |
| 20             | 256QAM          | 1        | 99         | 19.43                 | 19.49                  | 19.31                  | 19.51                  |                        |                    |          |  |  |
| 20             | 256QAM          | 1        | 149        | 19.38                 | 19.41                  | 19.38                  | 19.47                  |                        |                    |          |  |  |
| 20             | 256QAM          | 50       | 24         | 19.48                 | 19.58                  | 19.49                  | 19.56                  |                        | 20.5               | 3.5      |  |  |
| 20             | 256QAM          | 50       | 74         | 19.50                 | 19.62                  | 19.42                  | 19.55                  |                        |                    |          |  |  |
| 20             | 256QAM          | 100      | 24         | 19.52                 | 19.62                  | 19.52                  | 19.62                  |                        |                    |          |  |  |
| Channel        |                 |          |            |                       |                        |                        |                        |                        |                    |          |  |  |
|                | Frequency (MHz) |          |            | 55515                 | 56015                  | 56015                  | 56015                  | 56015                  | Turn-on time (sec) | APR (dB) |  |  |
| 15             | QPSK            | 1        | 0          | 22.55                 | 22.55                  | 22.43                  | 22.68                  |                        |                    |          |  |  |
| 15             | QPSK            | 1        | 37         | 22.62                 | 22.78                  | 22.75                  | 22.80                  |                        |                    |          |  |  |
| 15             | QPSK            | 1        | 74         | 22.73                 | 22.79                  | 22.69                  | 22.81                  |                        | 24                 | 0        |  |  |
| 15             | QPSK            | 36       | 20         | 22.72                 | 22.85                  | 22.70                  | 22.79                  |                        |                    |          |  |  |
| 15             | QPSK            | 36       | 20         | 22.68                 | 22.70                  | 22.64                  | 22.74                  |                        | 24                 | 0        |  |  |
| 15             | QPSK            | 36       | 39         | 22.67                 | 22.78                  | 22.61                  | 22.68                  |                        |                    |          |  |  |
| 15             | QPSK            | 36       | 74         | 22.69                 | 22.76                  | 22.59                  | 22.65                  |                        |                    |          |  |  |
| 15             | 16QAM           | 1        | 0          | 22.60                 | 22.71                  | 22.53                  | 22.70                  |                        |                    |          |  |  |
| 15             | 16QAM           | 1        | 37         | 22.62                 | 22.71                  | 22.61                  | 22.73                  |                        | 24                 | 0        |  |  |
| 15             | 16QAM           | 1        | 74         | 22.64                 | 22.69                  | 22.60                  | 22.66                  |                        |                    |          |  |  |
| 15             | 16QAM           | 36       | 20         | 22.28                 | 22.33                  | 22.23                  | 22.34                  |                        | 23.5               | 0.5      |  |  |
| 15             | 16QAM           | 36       | 20         | 22.40                 | 22.50                  | 22.32                  | 22.44                  |                        |                    |          |  |  |
| 15             | 16QAM           | 36       | 39         | 22.42                 | 22.50                  | 22.29                  | 22.44                  |                        | 23.5               | 0.5      |  |  |
| 15             | 16QAM           | 36       | 74         | 22.38                 | 22.47                  | 22.28                  | 22.39                  |                        |                    |          |  |  |
| 15             | 64QAM           | 1        | 0          | 22.25                 | 22.34                  | 22.28                  | 22.32                  |                        |                    |          |  |  |
| 15             | 64QAM           | 1        | 37         | 22.28                 | 22.38                  | 22.33                  | 22.32                  |                        | 23.5               | 0.5      |  |  |
| 15             | 64QAM           | 1        | 74         | 22.26                 | 22.30                  | 22.21                  | 22.26                  |                        |                    |          |  |  |
| 15             | 64QAM           | 36       | 20         | 21.34                 | 21.40                  | 21.30                  | 21.42                  |                        | 22.5               | 1.5      |  |  |
| 15             | 64QAM           | 36       | 20         | 21.40                 | 21.44                  | 21.30                  | 21.36                  |                        |                    |          |  |  |
| 15             | 64QAM           | 36       | 39         | 21.42                 | 21.45                  | 21.34                  | 21.45                  |                        | 20.5               | 3.5      |  |  |
| 15             | 64QAM           | 36       | 74         | 21.37                 | 21.50                  | 21.38                  | 21.48                  |                        |                    |          |  |  |
| 15             | 256QAM          | 1        | 0          | 19.14                 | 19.29                  | 19.16                  | 19.28                  |                        | 20.5               | 3.5      |  |  |
| 15             | 256QAM          | 1        | 37         | 19.28                 | 19.34                  | 19.18                  | 19.30                  |                        |                    |          |  |  |
| 15             | 256QAM          | 1        | 74         | 19.36                 | 19.47                  | 19.21                  | 19.36                  |                        | 20.5               | 3.5      |  |  |
| 15             | 256QAM          | 1        | 99         | 19.39                 | 19.39                  | 19.33                  | 19.32                  |                        |                    |          |  |  |
| 15             | 256QAM          | 50       | 20         | 19.37                 | 19.46                  | 19.42                  | 19.53                  |                        | 20.5               | 3.5      |  |  |
| 15             | 256QAM          | 50       | 39         | 19.49                 | 19.00                  | 19.38                  | 19.43                  |                        |                    |          |  |  |
| 15             | 256QAM          | 100      | 20         | 19.35                 | 19.38                  | 19.36                  | 19.37                  |                        | 20.5               | 3.5      |  |  |
| Channel        |                 |          |            |                       |                        |                        |                        |                        |                    |          |  |  |
|                | Frequency (MHz) |          |            | 55250                 | 56115                  | 56115                  | 56115                  | 56115                  | Turn-on time (sec) | APR (dB) |  |  |
|                |                 |          |            | 36055                 | 36075                  | 36425                  | 36055                  | 36055                  |                    |          |  |  |
| 10             | QPSK            | 1        | 0          | 22.54                 | 22.66                  | 22.42                  | 22.59                  |                        |                    |          |  |  |
| 10             | QPSK            | 1        | 25         | 22.73                 | 22.83                  | 22.70                  | 22.87                  |                        | 24                 | 0        |  |  |
| 10             | QPSK            | 1        | 75         | 22.78                 | 22.78                  | 22.63                  | 22.78                  |                        |                    |          |  |  |
| 10             | QPSK            | 25       | 2          | 22.63                 | 22.81                  | 22.60                  | 22.81                  |                        |                    |          |  |  |
| 10             | QPSK            | 25       | 12         | 22.75                 | 22.78                  | 22.58                  | 22.74                  |                        | 24                 | 0        |  |  |
| 10             | QPSK            | 25       | 25         | 22.72                 | 22.72                  | 22.53                  | 22.73                  |                        |                    |          |  |  |
| 10             | QPSK            | 50       | 0          | 22.68                 | 22.73                  | 22.62                  | 22.68                  |                        |                    |          |  |  |
| 10             | 16QAM           | 1        | 0          | 22.61                 | 22.68                  | 22.50                  | 22.73                  |                        |                    |          |  |  |
| 10             | 16QAM           | 1        | 25         | 22.59                 | 22.65                  | 22.62                  | 22.70                  |                        | 24                 | 0        |  |  |
| 10             | 16QAM           | 1        | 75         | 22.60                 | 22.74                  | 22.59                  | 22.71                  |                        |                    |          |  |  |
| 10             | 16QAM           | 25       | 0          | 22.22                 | 22.46                  | 22.34                  | 22.33                  |                        | 23.5               | 0.5      |  |  |
| 10             | 16QAM           | 25       | 12         | 22.44                 | 22.43                  | 22.38                  | 22.44                  |                        |                    |          |  |  |
| 10             | 16QAM           | 25       | 25         | 22.39                 | 22.47                  | 22.32                  | 22.39                  |                        | 23.5               | 0.5      |  |  |
| 10             | 64QAM           | 1        | 0          | 22.23                 | 22.34                  | 22.30                  | 22.31                  |                        |                    |          |  |  |
| 10             | 64QAM           | 1        | 25         | 22.31                 | 22.44                  | 22.28                  | 22.38                  |                        | 23.5               | 0.5      |  |  |
| 10             | 64QAM           | 1        | 75         | 22.12                 | 22.21                  | 22.14                  | 22.21                  |                        |                    |          |  |  |
| 10             | 64QAM           | 25       | 0          | 21.33                 | 21.41                  | 21.17                  | 21.41                  |                        | 22.5               | 1.5      |  |  |
| 10             | 64QAM           | 25       | 12         | 21.37                 | 21.41                  | 21.35                  | 21.42                  |                        |                    |          |  |  |
| 10             | 64QAM           | 25       | 25         | 21.36                 | 21.48                  | 21.36                  | 21.48                  |                        | 22.5               | 1.5      |  |  |
| 10             | 256QAM          | 1        | 0          | 21.36                 | 21.50                  | 21.36                  | 21.48                  |                        | 20.5               | 3.5      |  |  |
| 10             | 256QAM          | 1        | 25         | 19.31                 | 19.28                  | 19.20                  | 19.25                  |                        |                    |          |  |  |
| 10             | 256QAM          | 1        | 75         | 19.40                 | 19.44                  | 19.35                  | 19.40                  |                        | 20.5               | 3.5      |  |  |
| 10             | 256QAM          | 25       | 0          | 19.33                 | 19.29                  | 19.23                  | 19.45                  |                        |                    |          |  |  |
| 10             | 256QAM          | 25       | 12         | 19.38                 | 19.47                  | 19.40                  | 19.48                  |                        | 20.5               | 3.5      |  |  |
| 10             | 256QAM          | 25       | 25         | 19.47                 | 19.51                  | 19.32                  | 19.47                  |                        |                    |          |  |  |
| 10             | 256QAM          | 50       | 0          | 19.32                 | 19.32                  | 19.29                  | 19.32                  |                        | 20.5               | 3.5      |  |  |
| Channel        |                 |          |            |                       |                        |                        |                        |                        |                    |          |  |  |
|                | Frequency (MHz) |          |            | 56255                 | 56075                  | 56170                  | 56175                  | 56175                  | Turn-on time (sec) | APR (dB) |  |  |
| 5              | QPSK            | 1        | 0          | 22.59                 | 22.64                  | 22.46                  | 22.59                  |                        |                    |          |  |  |
| 5              | QPSK            | 1        | 27         | 22.76                 | 22.83                  | 22.72                  | 22.77                  |                        | 24                 | 0        |  |  |
| 5              | QPSK            | 1        | 24         | 22.72                 | 22.83                  | 22.73                  | 22.77                  |                        |                    |          |  |  |
| 5              | QPSK            | 12       | 0          | 22.74                 | 22.83                  | 22.70                  | 22.78                  |                        |                    |          |  |  |
| 5              | QPSK            | 12       | 7          | 22.66                 | 22.75                  | 22.66                  | 22.71                  |                        | 24                 | 0        |  |  |
| 5              | QPSK            | 12       | 27         | 22.80                 | 22.72                  | 22.63                  | 22.72                  |                        |                    |          |  |  |
| 5              | QPSK            | 25       | 0          | 22.61                 | 22.71                  | 22.58                  | 22.68                  |                        |                    |          |  |  |
| 5              | QPSK            | 25       | 0          | 22.61                 | 22.67                  | 22.54                  | 22.70                  |                        |                    |          |  |  |
| 5              | 16QAM           | 1        | 0          | 22.63                 | 22.73                  | 22.59                  | 22.73                  |                        | 24                 | 0        |  |  |
| 5              | 16QAM           | 1        | 24         | 22.63                 | 22.73                  | 22.63                  | 22.69                  |                        |                    |          |  |  |
| 5              | 16QAM           | 12       | 0          | 22.23                 | 22.40                  | 22.32                  | 22.32                  |                        | 23.5               | 0.5      |  |  |
| 5              | 16QAM           | 12       | 7          | 22.39                 | 22.44                  | 22.35                  | 22.46                  |                        |                    |          |  |  |
| 5              | 16QAM           | 25       | 0          | 22.27                 | 22.40                  | 22.29                  | 22.49                  |                        | 23.5               | 0.5      |  |  |
| 5              | 64QAM           | 1        | 0          | 22.25                 | 22.29                  | 22.31                  | 22.35                  |                        |                    |          |  |  |
| 5              | 64QAM           | 1        | 27         | 22.38                 | 22.46                  | 22.36                  | 22.46                  |                        | 23.5               | 0.5      |  |  |
| 5              | 64QAM           | 1        | 24         | 22.13                 | 22.23                  | 22.20                  | 22.26                  |                        |                    |          |  |  |
| 5              | 64QAM           | 12       | 0          | 21.30                 | 21.43                  | 21.17                  | 21.43                  |                        | 22.5               | 1.5      |  |  |
| 5              | 64QAM           | 12       | 7          | 21.40                 | 21.42                  | 21.28                  | 21.35                  |                        |                    |          |  |  |
| 5              | 64QAM           | 12       | 27         | 21.50                 | 21.50                  | 21.45                  | 21.50                  |                        | 22.5               | 1.5      |  |  |
| 5              | 256QAM          | 1        | 0          | 19.16                 | 19.22                  | 19.23                  | 19.31                  |                        | 20.5               | 3.5      |  |  |
| 5              | 256QAM          | 1        | 27         | 19.26                 | 19.24                  | 19.23                  | 19.31                  |                        |                    |          |  |  |
| 5              | 256QAM          | 1        | 24         | 19.31                 | 19.33                  | 19.43                  | 19.27                  |                        | 20.5               | 3.5      |  |  |
| 5              | 256QAM          | 12       | 0          | 19.30                 | 19.31                  | 19.28                  | 19.42                  |                        |                    |          |  |  |
| 5              | 256QAM          | 12       | 7          | 19.46                 | 19.56                  | 19.37                  | 19.49                  |                        | 20.5               | 3.5      |  |  |
| 5              | 256QAM          | 12       | 27         | 19.54                 | 19.54                  | 19.34                  | 19.49                  |                        |                    |          |  |  |
| 5              | 256QAM          | 25       | 0          | 19.31                 | 19.31                  | 19.20                  | 19.28                  |                        |                    |          |  |  |

| Band 48_Ant 8 |            |          |            |                      |                         |                       |                       |                    |           |  |  |  |
|---------------|------------|----------|------------|----------------------|-------------------------|-----------------------|-----------------------|--------------------|-----------|--|--|--|
| BW (MHz)      | Modulation | RIS rate | RIS Offset | Power Low Ch / Freqs | Power Middle Ch / Freqs | Power High Ch / Freqs | Power High Ch / Freqs | Turn-on time (min) | APR# (dB) |  |  |  |
| Channel       |            |          |            |                      |                         |                       |                       |                    |           |  |  |  |
|               |            |          |            | 5560                 | 5680                    | 5815                  | 5950                  |                    |           |  |  |  |
|               |            |          |            | 3600                 | 3600                    | 3615                  | 3690                  |                    |           |  |  |  |
| 20            | QPSK       | 1        | 0          | 15.47                | 15.48                   | 15.50                 | 15.31                 |                    |           |  |  |  |
| 20            | QPSK       | 1        | 49         | 15.46                | 15.51                   | 15.51                 | 15.41                 | 16.2               | 0         |  |  |  |
| 20            | QPSK       | 1        | 99         | 15.42                | 15.50                   | 15.26                 | 15.30                 |                    |           |  |  |  |
| 20            | QPSK       | 1        | 149        | 15.47                | 15.49                   | 15.26                 | 15.33                 |                    |           |  |  |  |
| 20            | QPSK       | 60       | 24         | 15.46                | 15.35                   | 15.24                 | 15.27                 | 16.2               | 0         |  |  |  |
| 20            | QPSK       | 60       | 50         | 15.38                | 15.43                   | 15.27                 | 15.30                 |                    |           |  |  |  |
| 20            | QPSK       | 60       | 75         | 15.45                | 15.34                   | 15.23                 | 15.26                 |                    |           |  |  |  |
| 20            | 16QAM      | 1        | 0          | 15.37                | 15.33                   | 15.23                 | 15.33                 |                    |           |  |  |  |
| 20            | 16QAM      | 1        | 49         | 15.43                | 15.37                   | 15.32                 | 15.33                 | 16.2               | 0         |  |  |  |
| 20            | 16QAM      | 1        | 99         | 15.41                | 15.40                   | 15.31                 | 15.29                 |                    |           |  |  |  |
| 20            | 16QAM      | 1        | 149        | 15.39                | 15.39                   | 15.31                 | 15.29                 |                    |           |  |  |  |
| 20            | 16QAM      | 60       | 24         | 15.38                | 15.40                   | 15.22                 | 15.23                 | 16.2               | 0         |  |  |  |
| 20            | 16QAM      | 60       | 50         | 15.41                | 15.31                   | 15.25                 | 15.33                 |                    |           |  |  |  |
| 20            | 16QAM      | 60       | 75         | 15.45                | 15.35                   | 15.26                 | 15.29                 |                    |           |  |  |  |
| 20            | 64QAM      | 1        | 0          | 15.36                | 15.35                   | 15.25                 | 15.35                 |                    |           |  |  |  |
| 20            | 64QAM      | 1        | 49         | 15.41                | 15.34                   | 15.27                 | 15.33                 | 16.2               | 0         |  |  |  |
| 20            | 64QAM      | 1        | 99         | 15.39                | 15.34                   | 15.23                 | 15.33                 |                    |           |  |  |  |
| 20            | 64QAM      | 1        | 149        | 15.45                | 15.33                   | 15.23                 | 15.33                 |                    |           |  |  |  |
| 20            | 64QAM      | 60       | 24         | 15.41                | 15.43                   | 15.31                 | 15.31                 | 16.2               | 0         |  |  |  |
| 20            | 64QAM      | 60       | 50         | 15.45                | 15.35                   | 15.35                 | 15.24                 |                    |           |  |  |  |
| 20            | 256QAM     | 160      | 0          | 15.31                | 15.31                   | 15.21                 | 15.26                 |                    |           |  |  |  |
| Channel       |            |          |            |                      |                         |                       |                       |                    |           |  |  |  |
|               |            |          |            | 3557.5               | 3608                    | 3642                  | 3692.5                | Turn-on time (min) | APR# (dB) |  |  |  |
| 15            | QPSK       | 1        | 0          | 15.34                | 15.36                   | 15.40                 | 15.18                 |                    |           |  |  |  |
| 15            | QPSK       | 1        | 37         | 15.48                | 15.41                   | 15.37                 | 15.38                 | 16.2               | 0         |  |  |  |
| 15            | QPSK       | 1        | 74         | 15.39                | 15.15                   | 15.27                 | 15.18                 |                    |           |  |  |  |
| 15            | QPSK       | 36       | 0          | 15.42                | 15.35                   | 15.27                 | 15.22                 |                    |           |  |  |  |
| 15            | QPSK       | 36       | 20         | 15.34                | 15.24                   | 15.09                 | 15.12                 | 16.2               | 0         |  |  |  |
| 15            | QPSK       | 36       | 39         | 15.27                | 15.40                   | 15.18                 | 15.26                 |                    |           |  |  |  |
| 15            | QPSK       | 36       | 58         | 15.31                | 15.33                   | 15.31                 | 15.27                 |                    |           |  |  |  |
| 15            | 16QAM      | 1        | 0          | 15.27                | 15.29                   | 15.14                 | 15.26                 |                    |           |  |  |  |
| 15            | 16QAM      | 1        | 37         | 15.31                | 15.33                   | 15.25                 | 15.22                 | 16.2               | 0         |  |  |  |
| 15            | 16QAM      | 1        | 74         | 15.38                | 15.34                   | 15.26                 | 15.23                 |                    |           |  |  |  |
| 15            | 16QAM      | 36       | 0          | 15.23                | 15.29                   | 15.28                 | 15.23                 |                    |           |  |  |  |
| 15            | 16QAM      | 36       | 20         | 15.32                | 15.34                   | 15.13                 | 15.27                 |                    |           |  |  |  |
| 15            | 16QAM      | 36       | 39         | 15.36                | 15.23                   | 15.14                 | 15.22                 |                    |           |  |  |  |
| 15            | 16QAM      | 36       | 58         | 15.45                | 15.25                   | 15.15                 | 15.14                 |                    |           |  |  |  |
| 15            | 64QAM      | 1        | 0          | 15.30                | 15.30                   | 15.11                 | 15.31                 |                    |           |  |  |  |
| 15            | 64QAM      | 1        | 37         | 15.35                | 15.18                   | 15.19                 | 15.09                 | 16.2               | 0         |  |  |  |
| 15            | 64QAM      | 1        | 74         | 15.43                | 15.30                   | 15.21                 | 15.18                 |                    |           |  |  |  |
| 15            | 64QAM      | 36       | 0          | 15.24                | 15.21                   | 15.20                 | 15.23                 |                    |           |  |  |  |
| 15            | 64QAM      | 36       | 20         | 15.35                | 15.23                   | 15.22                 | 15.25                 |                    |           |  |  |  |
| 15            | 64QAM      | 36       | 39         | 15.35                | 15.28                   | 15.14                 | 15.30                 |                    |           |  |  |  |
| 15            | 64QAM      | 36       | 58         | 15.45                | 15.33                   | 15.23                 | 15.30                 |                    |           |  |  |  |
| 15            | 256QAM     | 1        | 0          | 15.34                | 15.42                   | 15.13                 | 15.23                 |                    |           |  |  |  |
| 15            | 256QAM     | 1        | 37         | 15.31                | 15.28                   | 15.17                 | 15.18                 | 16.2               | 0         |  |  |  |
| 15            | 256QAM     | 1        | 74         | 15.24                | 15.18                   | 15.20                 | 15.10                 |                    |           |  |  |  |
| 15            | 256QAM     | 36       | 0          | 15.37                | 15.29                   | 15.22                 | 15.29                 |                    |           |  |  |  |
| 15            | 256QAM     | 36       | 20         | 15.32                | 15.31                   | 15.26                 | 15.18                 |                    |           |  |  |  |
| 15            | 256QAM     | 36       | 39         | 15.39                | 15.31                   | 15.25                 | 15.21                 |                    |           |  |  |  |
| 15            | 256QAM     | 36       | 58         | 15.38                | 15.30                   | 15.15                 | 15.22                 |                    |           |  |  |  |
| Channel       |            |          |            |                      |                         |                       |                       |                    |           |  |  |  |
|               |            |          |            | 5220                 | 5615                    | 5615                  | 5690                  | Turn-on time (min) | APR# (dB) |  |  |  |
| 10            | QPSK       | 1        | 0          | 15.36                | 15.33                   | 15.43                 | 15.24                 |                    |           |  |  |  |
| 10            | QPSK       | 1        | 25         | 16.09                | 15.48                   | 15.48                 | 15.28                 |                    |           |  |  |  |
| 10            | QPSK       | 1        | 50         | 15.34                | 15.25                   | 15.25                 | 15.18                 |                    |           |  |  |  |
| 10            | QPSK       | 25       | 0          | 15.44                | 15.30                   | 15.21                 | 15.22                 |                    |           |  |  |  |
| 10            | QPSK       | 25       | 12         | 15.35                | 15.24                   | 15.21                 | 15.19                 | 16.2               | 0         |  |  |  |
| 10            | QPSK       | 25       | 37         | 15.40                | 15.40                   | 15.40                 | 15.18                 |                    |           |  |  |  |
| 10            | QPSK       | 60       | 0          | 15.39                | 15.30                   | 15.11                 | 15.29                 |                    |           |  |  |  |
| 10            | 16QAM      | 1        | 0          | 15.33                | 15.32                   | 15.11                 | 15.27                 |                    |           |  |  |  |
| 10            | 16QAM      | 1        | 25         | 15.41                | 15.34                   | 15.29                 | 15.26                 | 16.2               | 0         |  |  |  |
| 10            | 16QAM      | 1        | 50         | 15.33                | 15.29                   | 15.21                 | 15.25                 |                    |           |  |  |  |
| 10            | 16QAM      | 25       | 0          | 15.26                | 15.35                   | 15.20                 | 15.24                 |                    |           |  |  |  |
| 10            | 16QAM      | 25       | 12         | 15.26                | 15.27                   | 15.12                 | 15.25                 |                    |           |  |  |  |
| 10            | 16QAM      | 25       | 37         | 15.40                | 15.36                   | 15.28                 | 15.18                 | 16.2               | 0         |  |  |  |
| 10            | 16QAM      | 60       | 0          | 15.30                | 15.26                   | 15.17                 | 15.16                 |                    |           |  |  |  |
| 10            | 64QAM      | 1        | 0          | 15.29                | 15.22                   | 15.17                 | 15.31                 |                    |           |  |  |  |
| 10            | 64QAM      | 1        | 25         | 16.09                | 15.28                   | 15.20                 | 15.17                 | 16.2               | 0         |  |  |  |
| 10            | 64QAM      | 1        | 50         | 15.34                | 15.21                   | 15.15                 | 15.17                 |                    |           |  |  |  |
| 10            | 64QAM      | 25       | 0          | 15.26                | 15.28                   | 15.20                 | 15.19                 |                    |           |  |  |  |
| 10            | 64QAM      | 25       | 12         | 15.31                | 15.27                   | 15.27                 | 15.13                 | 16.2               | 0         |  |  |  |
| 10            | 64QAM      | 25       | 37         | 15.40                | 15.36                   | 15.28                 | 15.18                 |                    |           |  |  |  |
| 10            | 256QAM     | 1        | 0          | 15.33                | 15.31                   | 15.21                 | 15.29                 |                    |           |  |  |  |
| 10            | 256QAM     | 1        | 25         | 16.09                | 15.30                   | 15.20                 | 15.27                 | 16.2               | 0         |  |  |  |
| 10            | 256QAM     | 1        | 50         | 15.38                | 15.25                   | 15.20                 | 15.16                 |                    |           |  |  |  |
| 10            | 256QAM     | 25       | 0          | 15.34                | 15.30                   | 15.18                 | 15.17                 |                    |           |  |  |  |
| 10            | 256QAM     | 25       | 12         | 15.40                | 15.39                   | 15.26                 | 15.17                 | 16.2               | 0         |  |  |  |
| 10            | 256QAM     | 25       | 37         | 15.37                | 15.30                   | 15.24                 | 15.15                 |                    |           |  |  |  |
| 10            | 256QAM     | 25       | 50         | 15.34                | 15.28                   | 15.20                 | 15.16                 |                    |           |  |  |  |
| Channel       |            |          |            |                      |                         |                       |                       |                    |           |  |  |  |
|               |            |          |            | 5225                 | 5607                    | 5610                  | 5671.5                | Turn-on time (min) | APR# (dB) |  |  |  |
| 5             | QPSK       | 1        | 0          | 15.34                | 15.34                   | 15.49                 | 15.29                 |                    |           |  |  |  |
| 5             | QPSK       | 1        | 12         | 15.43                | 15.48                   | 15.48                 | 15.40                 | 16.2               | 0         |  |  |  |
| 5             | QPSK       | 1        | 24         | 15.40                | 15.19                   | 15.18                 | 15.18                 |                    |           |  |  |  |
| 5             | QPSK       | 12       | 0          | 15.34                | 15.43                   | 15.30                 | 15.25                 |                    |           |  |  |  |
| 5             | QPSK       | 12       | 7          | 15.43                | 15.23                   | 15.17                 | 15.12                 | 16.2               | 0         |  |  |  |
| 5             | QPSK       | 12       | 19         | 15.27                | 15.40                   | 15.20                 | 15.20                 |                    |           |  |  |  |
| 5             | QPSK       | 25       | 0          | 15.42                | 15.20                   | 15.19                 | 15.22                 |                    |           |  |  |  |
| 5             | QPSK       | 25       | 0          | 15.27                | 15.24                   | 15.08                 | 15.23                 |                    |           |  |  |  |
| 5             | 16QAM      | 1        | 0          | 15.40                | 15.34                   | 15.24                 | 15.29                 | 16.2               | 0         |  |  |  |
| 5             | 16QAM      | 1        | 24         | 15.34                | 15.30                   | 15.20                 | 15.15                 |                    |           |  |  |  |
| 5             | 16QAM      | 12       | 0          | 15.28                | 15.35                   | 15.30                 | 15.14                 |                    |           |  |  |  |
| 5             | 16QAM      | 12       | 7          | 15.33                | 15.32                   | 15.21                 | 15.19                 | 16.2               | 0         |  |  |  |
| 5             | 16QAM      | 12       | 19         | 15.26                | 15.41                   | 15.21                 | 15.09                 |                    |           |  |  |  |
| 5             | 16QAM      | 25       | 0          | 15.24                | 15.31                   | 15.24                 | 15.10                 |                    |           |  |  |  |
| 5             | 64QAM      | 1        | 0          | 15.26                | 15.23                   | 15.16                 | 15.30                 |                    |           |  |  |  |
| 5             | 64QAM      | 1        | 12         | 15.32                | 15.26                   | 15.26                 | 15.26                 | 16.2               | 0         |  |  |  |
| 5             | 64QAM      | 1        | 24         | 15.30                | 15.31                   | 15.10                 | 15.11                 |                    |           |  |  |  |
| 5             | 64QAM      | 12       | 0          | 15.27                | 15.30                   | 15.30                 | 15.30                 |                    |           |  |  |  |
| 5             | 64QAM      | 12       | 7          | 15.36                | 15.18                   | 15.24                 | 15.20                 | 16.2               | 0         |  |  |  |
| 5             | 64QAM      | 12       | 19         | 15.27                | 15.38                   | 15.24                 | 15.26                 |                    |           |  |  |  |
| 5             | 64QAM      | 25       | 0          | 15.32                | 15.26                   | 15.28                 | 15.24                 |                    |           |  |  |  |
| 5             | 256QAM     | 1        | 0          | 15.33                | 15.37                   | 15.18                 | 15.29                 |                    |           |  |  |  |
| 5             | 256QAM     | 1        | 12         | 15.22                | 15.38                   | 15.19                 | 15.26                 | 16.2               | 0         |  |  |  |
| 5             | 256QAM     | 1        | 24         | 15.28                | 15.30                   | 15.21                 | 15.10                 |                    |           |  |  |  |
| 5             | 256QAM     | 12       | 0          | 15.41                | 15.18                   | 15.25                 | 15.15                 |                    |           |  |  |  |
| 5             | 256QAM     | 12       | 7          | 15.35                | 15.41                   | 15.17                 | 15.24                 |                    |           |  |  |  |
| 5             | 256QAM     | 12       | 19         | 15.43                | 15.35                   | 15.26                 | 15.12                 | 16.2               | 0         |  |  |  |
| 5             | 256QAM     | 25       | 0          | 15.36                | 15.20                   | 15.21                 | 15.13                 |                    |           |  |  |  |

### Reduced Power Mode for DSI3

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) |                           | 824.2 | 836.4 | 848.8               | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |                           | 31.90 | 31.88 | 32.27               | 33.50                     | 22.90 | 22.68 | 23.27               |
| GPRS 1 Tx slot  |                           | 31.88 | 31.85 | 32.24               | 33.50                     | 22.88 | 22.65 | 23.24               |
| GPRS 2 Tx slots |                           | 29.03 | 29.37 | 29.58               | 30.50                     | 23.03 | 23.37 | 23.58               |
| GPRS 3 Tx slots |                           | 27.82 | 27.93 | 27.92               | 28.80                     | 23.56 | 23.67 | 23.66               |
| GPRS 4 Tx slots |                           | 26.23 | 26.41 | 26.43               | 27.50                     | 23.23 | 23.41 | 23.43               |
| EDGE 1 Tx slot  |                           | 25.13 | 25.25 | 25.56               | 26.50                     | 16.13 | 16.25 | 16.56               |
| EDGE 2 Tx slots |                           | 24.25 | 24.33 | 24.55               | 25.50                     | 18.25 | 18.33 | 18.55               |
| EDGE 3 Tx slots |                           | 22.51 | 22.31 | 22.72               | 23.50                     | 16.25 | 16.05 | 16.46               |
| EDGE 4 Tx slots |                           | 20.51 | 20.45 | 20.69               | 21.50                     | 17.51 | 17.45 | 17.69               |

| Band                               | WCDMA_II_Ant 0 |        |       | Tune-up Limit (dBm) | WCDMA_II_Ant 1 |       |        | Tune-up Limit (dBm) |
|------------------------------------|----------------|--------|-------|---------------------|----------------|-------|--------|---------------------|
|                                    | TX Channel     | 9262   | 9400  | 9538                | 9262           | 9400  | 9538   |                     |
| Rx Channel                         |                | 9662   | 9800  | 9938                | 9662           | 9800  | 9938   |                     |
| Frequency (MHz)                    |                | 1852.4 | 1880  | 1907.6              | 1852.4         | 1880  | 1907.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |                | 15.97  | 15.98 | 15.93               | 17.20          | 17.83 | 17.89  | 17.85               |
| 3GPP Rel 99 RMC 12.2Kbps           |                | 15.99  | 16.02 | 15.96               | 17.20          | 17.86 | 17.92  | 17.87               |
| 3GPP Rel 6 HSDPA Subtest-1         |                | 15.00  | 14.75 | 14.96               | 16.20          | 16.92 | 17.00  | 16.96               |
| 3GPP Rel 6 HSDPA Subtest-2         |                | 14.89  | 14.85 | 14.95               | 16.20          | 16.93 | 17.07  | 16.92               |
| 3GPP Rel 6 HSDPA Subtest-3         |                | 14.40  | 14.29 | 14.34               | 15.70          | 16.48 | 16.56  | 16.40               |
| 3GPP Rel 6 HSDPA Subtest-4         |                | 14.51  | 14.39 | 14.10               | 15.70          | 16.51 | 16.53  | 16.44               |
| 3GPP Rel 6 DC-HSDPA Subtest-1      |                | 14.86  | 14.73 | 14.84               | 16.20          | 16.89 | 16.93  | 16.89               |
| 3GPP Rel 6 DC-HSDPA Subtest-2      |                | 14.81  | 14.71 | 14.88               | 16.20          | 16.89 | 16.88  | 16.84               |
| 3GPP Rel 6 DC-HSDPA Subtest-3      |                | 14.29  | 14.19 | 14.35               | 15.70          | 16.32 | 16.35  | 16.37               |
| 3GPP Rel 6 DC-HSDPA Subtest-4      |                | 14.26  | 14.09 | 14.09               | 15.70          | 16.37 | 16.41  | 16.40               |
| 3GPP Rel 6 HSUPA Subtest-1         |                | 14.96  | 14.79 | 15.05               | 16.20          | 16.99 | 16.93  | 16.96               |
| 3GPP Rel 6 HSUPA Subtest-2         |                | 13.03  | 12.88 | 13.03               | 14.20          | 15.12 | 15.01  | 14.98               |
| 3GPP Rel 6 HSUPA Subtest-3         |                | 14.03  | 13.76 | 13.90               | 15.20          | 15.99 | 16.01  | 16.07               |
| 3GPP Rel 6 HSUPA Subtest-4         |                | 13.06  | 12.93 | 13.05               | 14.20          | 15.07 | 15.07  | 15.07               |
| 3GPP Rel 6 HSUPA Subtest-5         |                | 15.09  | 14.81 | 15.05               | 16.20          | 16.95 | 16.85  | 17.07               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |                | 13.74  | 13.73 | 13.77               | 14.70          | 15.16 | 15.40  | 15.31               |

| Band                               | WCDMA_V_Ant 0 |       |       | Tune-up Limit (dBm) | WCDMA_V_Ant 1 |       |       | Tune-up Limit (dBm) |
|------------------------------------|---------------|-------|-------|---------------------|---------------|-------|-------|---------------------|
|                                    | TX Channel    | 4132  | 4182  | 4233                | 4132          | 4182  | 4233  |                     |
| Rx Channel                         |               | 4357  | 4407  | 4458                | 4357          | 4407  | 4458  |                     |
| Frequency (MHz)                    |               | 826.4 | 836.4 | 846.6               | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |               | 22.13 | 22.25 | 22.22               | 24.00         | 22.48 | 22.62 | 22.60               |
| 3GPP Rel 99 RMC 12.2Kbps           |               | 22.15 | 22.27 | 22.25               | 24.00         | 22.50 | 22.65 | 22.62               |
| 3GPP Rel 6 HSDPA Subtest-1         |               | 21.19 | 21.26 | 21.30               | 23.00         | 21.54 | 21.67 | 21.77               |
| 3GPP Rel 6 HSDPA Subtest-2         |               | 21.14 | 21.27 | 21.33               | 23.00         | 21.54 | 21.68 | 21.74               |
| 3GPP Rel 6 HSDPA Subtest-3         |               | 20.85 | 20.74 | 20.85               | 22.50         | 20.90 | 21.11 | 21.26               |
| 3GPP Rel 6 HSDPA Subtest-4         |               | 20.65 | 20.74 | 20.77               | 22.50         | 21.00 | 21.16 | 21.25               |
| 3GPP Rel 6 DC-HSDPA Subtest-1      |               | 21.10 | 21.21 | 21.02               | 23.00         | 21.73 | 21.69 | 21.72               |
| 3GPP Rel 6 DC-HSDPA Subtest-2      |               | 21.06 | 21.13 | 21.09               | 23.00         | 21.63 | 21.68 | 21.67               |
| 3GPP Rel 6 DC-HSDPA Subtest-3      |               | 20.53 | 20.69 | 20.58               | 22.50         | 21.21 | 21.20 | 21.08               |
| 3GPP Rel 6 DC-HSDPA Subtest-4      |               | 20.70 | 20.71 | 20.59               | 22.50         | 21.11 | 21.17 | 21.03               |
| 3GPP Rel 6 HSUPA Subtest-1         |               | 21.12 | 21.22 | 21.28               | 23.00         | 21.70 | 21.68 | 21.75               |
| 3GPP Rel 6 HSUPA Subtest-2         |               | 19.14 | 19.26 | 19.29               | 21.00         | 19.66 | 19.64 | 19.74               |
| 3GPP Rel 6 HSUPA Subtest-3         |               | 20.14 | 20.23 | 20.30               | 22.00         | 20.65 | 20.64 | 20.70               |
| 3GPP Rel 6 HSUPA Subtest-4         |               | 19.14 | 19.23 | 19.28               | 21.00         | 19.56 | 19.66 | 19.74               |
| 3GPP Rel 6 HSUPA Subtest-5         |               | 21.10 | 21.20 | 21.30               | 23.00         | 21.50 | 21.60 | 21.70               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |               | 19.54 | 19.66 | 19.60               | 21.50         | 20.06 | 20.15 | 20.03               |

| GSM1900_Ant 0   | Burst Average Power (dBm) |        |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|-------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512    | 661   | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) |                           | 1850.2 | 1680  | 1909.8              | 1850.2                    | 1680  | 1909.8 |                     |
| GSM 1 Tx slot   |                           | 27.64  | 27.76 | 27.75               | 28.10                     | 18.64 | 18.76  | 18.75               |
| GPRS 1 Tx slot  |                           | 27.59  | 27.73 | 27.68               | 28.10                     | 18.59 | 18.73  | 18.68               |
| GPRS 2 Tx slots |                           | 24.29  | 24.33 | 24.28               | 25.10                     | 18.29 | 18.33  | 18.28               |
| GPRS 3 Tx slots |                           | 22.43  | 22.51 | 22.46               | 23.40                     | 18.17 | 18.25  | 18.20               |
| GPRS 4 Tx slots |                           | 21.12  | 21.18 | 21.10               | 22.10                     | 18.12 | 18.18  | 18.10               |
| EDGE 1 Tx slot  |                           | 24.81  | 24.46 | 24.81               | 26.00                     | 15.81 | 15.46  | 15.81               |
| EDGE 2 Tx slots |                           | 23.51  | 23.61 | 23.31               | 25.00                     | 17.51 | 17.61  | 17.31               |
| EDGE 3 Tx slots |                           | 21.80  | 21.81 | 21.71               | 23.00                     | 17.54 | 17.55  | 17.45               |
| EDGE 4 Tx slots |                           | 19.81  | 19.77 | 19.71               | 21.50                     | 16.81 | 16.77  | 16.71               |

| Band                               | WCDMA_IV_Ant 0 |        |        | Tune-up Limit (dBm) | WCDMA_IV_Ant 1 |        |        | Tune-up Limit (dBm) |
|------------------------------------|----------------|--------|--------|---------------------|----------------|--------|--------|---------------------|
|                                    | TX Channel     | 1312   | 1413   | 1513                | 1312           | 1413   | 1513   |                     |
| Rx Channel                         |                | 1537   | 1638   | 1738                | 1537           | 1638   | 1738   |                     |
| Frequency (MHz)                    |                | 1712.4 | 1722.3 | 1732.6              | 1712.4         | 1722.3 | 1732.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |                | 16.83  | 17.17  | 17.02               | 18.20          | 16.94  | 17.04  | 17.02               |
| 3GPP Rel 99 RMC 12.2Kbps           |                | 16.88  | 17.19  | 17.07               | 18.20          | 16.97  | 17.10  | 17.04               |
| 3GPP Rel 6 HSDPA Subtest-1         |                | 15.90  | 16.15  | 16.07               | 17.20          | 15.85  | 16.22  | 16.11               |
| 3GPP Rel 6 HSDPA Subtest-2         |                | 15.94  | 16.08  | 16.04               | 17.20          | 15.87  | 16.11  | 16.05               |
| 3GPP Rel 6 HSDPA Subtest-3         |                | 15.45  | 15.59  | 15.55               | 16.70          | 15.38  | 15.62  | 15.59               |
| 3GPP Rel 6 HSDPA Subtest-4         |                | 15.37  | 15.73  | 15.46               | 16.70          | 15.45  | 15.62  | 15.51               |
| 3GPP Rel 6 DC-HSDPA Subtest-1      |                | 15.68  | 16.01  | 15.73               | 17.20          | 15.94  | 16.06  | 15.97               |
| 3GPP Rel 6 DC-HSDPA Subtest-2      |                | 15.66  | 16.11  | 15.85               | 17.20          | 15.89  | 16.02  | 15.85               |
| 3GPP Rel 6 DC-HSDPA Subtest-3      |                | 15.37  | 15.43  | 15.29               | 16.70          | 15.47  | 15.51  | 15.36               |
| 3GPP Rel 6 DC-HSDPA Subtest-4      |                | 15.17  | 15.58  | 15.36               | 16.70          | 15.31  | 15.48  | 15.38               |
| 3GPP Rel 6 HSUPA Subtest-1         |                | 16.05  | 16.14  | 15.98               | 17.20          | 16.12  | 16.15  | 16.02               |
| 3GPP Rel 6 HSUPA Subtest-2         |                | 14.07  | 14.12  | 14.08               | 15.20          | 14.08  | 14.14  | 14.10               |
| 3GPP Rel 6 HSUPA Subtest-3         |                | 15.06  | 15.10  | 15.09               | 16.20          | 15.07  | 15.11  | 15.01               |
| 3GPP Rel 6 HSUPA Subtest-4         |                | 14.11  | 14.15  | 14.00               | 15.20          | 14.05  | 14.14  | 14.11               |
| 3GPP Rel 6 HSUPA Subtest-5         |                | 16.14  | 16.16  | 16.05               | 17.20          | 16.08  | 16.11  | 16.02               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |                | 14.98  | 14.82  | 14.81               | 15.70          | 14.38  | 14.61  | 14.65               |





| Band 2_Ant 0    |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
|-----------------|------------|-------------|--------------|---------------------------|----------------------------|----------------------------|-------------------------|-------------|------|---|------|---|
| BW<br>[MHz]     | Modulation | RB<br>Spac. | RB<br>Offset | Power<br>Low<br>Ch./Freq. | Power<br>Med.<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-on<br>time<br>[ms] | MPE<br>[dB] |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 20              | QPSK       | 1           | 0            | 15.97                     | 15.99                      | 15.94                      |                         |             | 17.4 | 0 |      |   |
| 20              | QPSK       | 1           | 49           | 15.98                     | 16.01                      | 16.01                      |                         |             |      |   |      |   |
| 20              | QPSK       | 1           | 99           | 15.93                     | 16.02                      | 15.98                      |                         |             |      |   |      |   |
| 20              | QPSK       | 50          | 0            | 15.97                     | 15.99                      | 15.94                      |                         |             |      |   |      |   |
| 20              | QPSK       | 50          | 24           | 15.98                     | 16.01                      | 16.07                      |                         |             |      |   |      |   |
| 20              | QPSK       | 50          | 49           | 15.99                     | 16.07                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 20              | QPSK       | 100         | 0            | 15.97                     | 16.00                      | 15.98                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 1           | 0            | 15.98                     | 16.01                      | 16.00                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 1           | 49           | 15.99                     | 16.02                      | 16.02                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 1           | 99           | 16.00                     | 16.07                      | 16.06                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 50          | 0            | 15.98                     | 16.04                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 20              | 16QAM      | 50          | 24           | 15.99                     | 16.02                      | 16.00                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 50          | 49           | 15.99                     | 16.01                      | 16.00                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 100         | 0            | 15.98                     | 16.07                      | 16.06                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 100         | 0            | 15.97                     | 16.00                      | 15.98                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 1           | 49           | 15.94                     | 15.97                      | 15.99                      |                         |             | 17.4 | 0 |      |   |
| 20              | 16QAM      | 1           | 99           | 15.98                     | 16.04                      | 16.07                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 50          | 0            | 15.99                     | 16.07                      | 16.08                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 50          | 24           | 15.99                     | 16.07                      | 16.06                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 50          | 49           | 15.99                     | 16.01                      | 16.00                      |                         |             |      |   |      |   |
| 20              | 16QAM      | 100         | 0            | 15.98                     | 16.07                      | 16.06                      |                         |             | 17.4 | 0 |      |   |
| 20              | 16QAM      | 100         | 0            | 15.97                     | 16.00                      | 15.98                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 1           | 0            | 15.95                     | 15.99                      | 15.99                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 1           | 49           | 15.94                     | 15.97                      | 15.99                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 1           | 99           | 15.95                     | 16.00                      | 16.04                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 50          | 0            | 15.96                     | 15.98                      | 15.98                      |                         |             | 17.4 | 0 |      |   |
| 20              | 256QAM     | 50          | 24           | 15.97                     | 16.02                      | 16.03                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 50          | 49           | 15.97                     | 16.00                      | 16.02                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 100         | 0            | 15.97                     | 16.02                      | 16.02                      |                         |             |      |   |      |   |
| 20              | 256QAM     | 100         | 0            | 15.91                     | 16.02                      | 16.02                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 16              | QPSK       | 1           | 0            | 15.87                     | 15.97                      | 15.79                      |                         |             | 17.4 | 0 |      |   |
| 16              | QPSK       | 1           | 47           | 16.05                     | 16.06                      | 16.03                      |                         |             |      |   |      |   |
| 16              | QPSK       | 1           | 93           | 15.88                     | 15.92                      | 15.92                      |                         |             |      |   |      |   |
| 16              | QPSK       | 36          | 0            | 15.96                     | 16.01                      | 16.00                      |                         |             |      |   |      |   |
| 16              | QPSK       | 36          | 20           | 15.94                     | 15.98                      | 16.76                      |                         |             |      |   |      |   |
| 16              | QPSK       | 36          | 20           | 15.79                     | 15.99                      | 16.01                      |                         |             | 17.4 | 0 |      |   |
| 16              | QPSK       | 76          | 0            | 15.98                     | 15.98                      | 16.01                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 1           | 0            | 15.93                     | 16.07                      | 16.76                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 1           | 47           | 15.79                     | 15.93                      | 16.07                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 1           | 74           | 15.92                     | 16.00                      | 16.00                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 36          | 0            | 15.97                     | 16.03                      | 16.02                      |                         |             | 17.4 | 0 |      |   |
| 16              | 16QAM      | 36          | 20           | 15.91                     | 15.97                      | 16.07                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 36          | 20           | 15.95                     | 15.99                      | 16.08                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 76          | 0            | 15.94                     | 15.99                      | 16.08                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 76          | 0            | 15.98                     | 15.98                      | 16.01                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 1           | 27           | 15.98                     | 15.99                      | 16.05                      |                         |             | 17.4 | 0 |      |   |
| 16              | 16QAM      | 1           | 74           | 15.94                     | 16.02                      | 16.07                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 36          | 0            | 15.94                     | 16.03                      | 16.04                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 36          | 20           | 15.95                     | 15.96                      | 16.05                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 36          | 20           | 15.79                     | 16.00                      | 16.09                      |                         |             |      |   |      |   |
| 16              | 16QAM      | 76          | 0            | 15.98                     | 15.94                      | 16.00                      |                         |             | 17.4 | 0 |      |   |
| 16              | 16QAM      | 76          | 0            | 15.91                     | 15.92                      | 16.07                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 1           | 0            | 15.81                     | 15.90                      | 15.87                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 1           | 27           | 15.85                     | 15.85                      | 15.82                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 1           | 74           | 15.85                     | 16.03                      | 16.03                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 36          | 0            | 15.84                     | 15.87                      | 16.76                      |                         |             | 17.4 | 0 |      |   |
| 16              | 256QAM     | 36          | 20           | 15.89                     | 15.89                      | 16.01                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 36          | 20           | 15.93                     | 15.89                      | 16.01                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 76          | 0            | 15.80                     | 15.97                      | 16.01                      |                         |             |      |   |      |   |
| 16              | 256QAM     | 76          | 0            | 15.80                     | 15.97                      | 16.01                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 10              | QPSK       | 1           | 0            | 15.88                     | 15.95                      | 15.79                      |                         |             | 17.4 | 0 |      |   |
| 10              | QPSK       | 1           | 25           | 15.91                     | 15.98                      | 16.07                      |                         |             |      |   |      |   |
| 10              | QPSK       | 1           | 49           | 15.92                     | 15.97                      | 16.04                      |                         |             |      |   |      |   |
| 10              | QPSK       | 26          | 0            | 16.02                     | 16.00                      | 16.08                      |                         |             |      |   |      |   |
| 10              | QPSK       | 26          | 12           | 15.91                     | 16.03                      | 16.03                      |                         |             |      |   |      |   |
| 10              | QPSK       | 26          | 12           | 15.79                     | 16.04                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 10              | QPSK       | 50          | 0            | 16.02                     | 16.07                      | 16.74                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 1           | 0            | 15.93                     | 16.08                      | 16.09                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 1           | 49           | 15.88                     | 16.07                      | 16.08                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 1           | 49           | 15.93                     | 16.08                      | 16.07                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 26          | 0            | 15.84                     | 16.00                      | 16.06                      |                         |             | 17.4 | 0 |      |   |
| 10              | 16QAM      | 26          | 12           | 15.90                     | 15.91                      | 16.06                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 26          | 12           | 15.90                     | 15.90                      | 16.05                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 50          | 0            | 15.90                     | 16.00                      | 16.05                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 50          | 0            | 15.87                     | 16.01                      | 16.04                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 1           | 25           | 15.87                     | 16.01                      | 16.04                      |                         |             | 17.4 | 0 |      |   |
| 10              | 16QAM      | 1           | 49           | 15.83                     | 16.07                      | 16.76                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 26          | 12           | 15.88                     | 16.06                      | 16.08                      |                         |             |      |   |      |   |
| 10              | 16QAM      | 26          | 12           | 15.85                     | 16.01                      | 16.01                      |                         |             |      |   |      |   |
| 10              | 256QAM     | 1           | 0            | 15.82                     | 15.90                      | 16.02                      |                         |             |      |   |      |   |
| 10              | 256QAM     | 1           | 25           | 15.91                     | 15.94                      | 16.04                      |                         |             | 17.4 | 0 |      |   |
| 10              | 256QAM     | 1           | 49           | 15.88                     | 16.04                      | 16.09                      |                         |             |      |   |      |   |
| 10              | 256QAM     | 26          | 0            | 15.90                     | 16.00                      | 16.05                      |                         |             |      |   |      |   |
| 10              | 256QAM     | 26          | 12           | 15.88                     | 16.00                      | 16.01                      |                         |             |      |   |      |   |
| 10              | 256QAM     | 50          | 0            | 15.87                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 5               | QPSK       | 1           | 0            | 15.96                     | 15.92                      | 16.79                      |                         |             | 17.4 | 0 |      |   |
| 5               | QPSK       | 1           | 12           | 16.00                     | 16.02                      | 16.00                      |                         |             |      |   |      |   |
| 5               | QPSK       | 1           | 12           | 15.92                     | 16.02                      | 16.04                      |                         |             |      |   |      |   |
| 5               | QPSK       | 12          | 0            | 15.97                     | 15.98                      | 16.05                      |                         |             |      |   |      |   |
| 5               | QPSK       | 12          | 7            | 15.92                     | 16.02                      | 16.04                      |                         |             |      |   |      |   |
| 5               | QPSK       | 26          | 0            | 15.96                     | 16.02                      | 16.06                      |                         |             | 17.4 | 0 |      |   |
| 5               | 16QAM      | 1           | 0            | 15.97                     | 16.05                      | 16.77                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 1           | 12           | 15.81                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 1           | 24           | 16.00                     | 16.01                      | 16.03                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 12          | 0            | 15.97                     | 16.03                      | 16.06                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 12          | 7            | 15.98                     | 16.00                      | 16.06                      |                         |             | 17.4 | 0 |      |   |
| 5               | 16QAM      | 12          | 13           | 16.00                     | 16.02                      | 16.07                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 26          | 0            | 15.94                     | 16.04                      | 16.09                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 26          | 0            | 15.90                     | 16.06                      | 16.02                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 1           | 12           | 16.07                     | 16.06                      | 16.09                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 1           | 24           | 15.91                     | 16.00                      | 16.06                      |                         |             | 17.4 | 0 |      |   |
| 5               | 16QAM      | 12          | 0            | 15.91                     | 16.02                      | 16.06                      |                         |             |      |   |      |   |
| 5               | 16QAM      | 12          | 7            | 15.90                     | 16.02                      | 16.06                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 1           | 0            | 15.78                     | 16.07                      | 16.09                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 1           | 12           | 15.80                     | 16.04                      | 16.79                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 12          | 0            | 15.78                     | 16.07                      | 16.09                      |                         |             | 17.4 | 0 |      |   |
| 5               | 256QAM     | 12          | 7            | 15.91                     | 16.04                      | 16.09                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 12          | 13           | 15.86                     | 16.00                      | 16.01                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 26          | 0            | 15.85                     | 16.00                      | 16.01                      |                         |             |      |   |      |   |
| 5               | 256QAM     | 26          | 0            | 15.82                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 3               | QPSK       | 1           | 0            | 15.87                     | 15.98                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 3               | QPSK       | 1           | 8            | 15.91                     | 16.01                      | 16.09                      |                         |             |      |   |      |   |
| 3               | QPSK       | 1           | 8            | 15.93                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 3               | QPSK       | 8           | 4            | 16.01                     | 16.00                      | 16.75                      |                         |             |      |   |      |   |
| 3               | QPSK       | 8           | 4            | 15.90                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| 3               | QPSK       | 16          | 0            | 15.95                     | 16.07                      | 16.73                      |                         |             | 17.4 | 0 |      |   |
| 3               | 16QAM      | 1           | 0            | 15.94                     | 16.08                      | 16.00                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 1           | 8            | 15.92                     | 16.01                      | 16.04                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 16          | 0            | 15.96                     | 16.02                      | 16.04                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 16          | 8            | 15.94                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 1           | 14           | 15.96                     | 16.02                      | 16.04                      |                         |             | 17.4 | 0 |      |   |
| 3               | 16QAM      | 8           | 0            | 15.88                     | 16.01                      | 16.08                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 8           | 4            | 16.00                     | 16.07                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 3               | 16QAM      | 8           | 7            | 15.87                     | 16.02                      | 16.09                      |                         |             |      |   |      |   |
| 3               | 16QAM      | 16          | 0            | 15.92                     | 16.06                      | 16.06                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 0            | 15.96                     | 15.92                      | 16.79                      |                         |             |      |   | 17.4 | 0 |
| 1.4             | QPSK       | 1           | 8            | 15.94                     | 16.01                      | 16.09                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 8            | 15.96                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8           | 4            | 16.01                     | 16.00                      | 16.75                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8           | 4            | 15.90                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 16          | 0            | 15.95                     | 16.07                      | 16.73                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 1           | 0            | 15.94                     | 16.08                      | 16.00                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 1           | 8            | 15.93                     | 16.01                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 0            | 15.96                     | 16.02                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 8            | 15.94                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 1           | 14           | 15.98                     | 16.02                      | 16.04                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 8           | 0            | 15.90                     | 16.01                      | 16.08                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 8           | 7            | 15.87                     | 16.02                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 16          | 0            | 15.92                     | 16.06                      | 16.06                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 8            | 15.94                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 0            | 15.96                     | 15.92                      | 16.79                      |                         |             |      |   | 17.4 | 0 |
| 1.4             | QPSK       | 1           | 8            | 15.94                     | 16.01                      | 16.09                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 8            | 15.96                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8           | 4            | 16.01                     | 16.00                      | 16.75                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8           | 4            | 15.90                     | 16.00                      | 16.06                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 16          | 0            | 15.95                     | 16.07                      | 16.73                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 1           | 0            | 15.94                     | 16.08                      | 16.00                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 1           | 8            | 15.93                     | 16.01                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 0            | 15.96                     | 16.02                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 8            | 15.94                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 1           | 14           | 15.99                     | 16.02                      | 16.04                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 8           | 0            | 15.90                     | 16.01                      | 16.08                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 8           | 7            | 15.87                     | 16.02                      | 16.07                      |                         |             | 17.4 | 0 |      |   |
| 1.4             | 16QAM      | 16          | 0            | 15.92                     | 16.06                      | 16.06                      |                         |             |      |   |      |   |
| 1.4             | 16QAM      | 16          | 8            | 15.94                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| Channel         |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| Frequency [MHz] |            |             |              |                           |                            |                            |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 0            | 15.96                     | 15.92                      | 16.79                      |                         |             |      |   | 17.4 | 0 |
| 1.4             | QPSK       | 1           | 8            | 15.94                     | 16.01                      | 16.09                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 1           | 8            | 15.96                     | 16.04                      | 16.04                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8           | 4            | 16.01                     | 16.00                      | 16.75                      |                         |             |      |   |      |   |
| 1.4             | QPSK       | 8</         |              |                           |                            |                            |                         |             |      |   |      |   |



| Band 5_Ant 0    |            |        |           |                      |                      |                                                                     |              |          |  |  |  |  |
|-----------------|------------|--------|-----------|----------------------|----------------------|---------------------------------------------------------------------|--------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq.                                               | Timeup (int) | MRR (dB) |  |  |  |  |
| Channel         |            |        |           |                      |                      |                                                                     |              |          |  |  |  |  |
| Frequency (MHz) |            |        |           | 20650                | 20655                | 20660                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 22.45                | 22.50                | 22.57                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 25        | 22.52                | 22.63                | 22.69                                                               | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 1      | 49        | 22.47                | 22.52                | 22.57                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 25     | 0         | 22.43                | 22.50                | 22.56                                                               | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 25     | 25        | 22.54                | 22.54                | 22.59                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 22.52                | 22.58                | 22.57                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 22.35                | 22.38                | 22.51                                                               | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 1      | 25        | 22.39                | 22.54                | 22.51                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 49        | 21.35                | 21.44                | 21.53                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 25     | 0         | 21.47                | 21.52                | 21.51                                                               | 23           | 1        |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 21.43                | 21.44                | 21.51                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 21.42                | 21.46                | 21.48                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 21.41                | 21.00                | 21.43                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 1      | 25        | 21.43                | 21.43                | 21.51                                                               | 23           | 1        |  |  |  |  |
| 10              | QPSK       | 1      | 49        | 21.37                | 21.51                | 21.55                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 25     | 0         | 20.39                | 20.40                | 20.52                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 25     | 12        | 20.47                | 20.52                | 20.48                                                               | 22           | 2        |  |  |  |  |
| 10              | QPSK       | 25     | 25        | 20.45                | 20.44                | 20.51                                                               |              |          |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 20.45                | 20.46                | 20.47                                                               |              |          |  |  |  |  |
| 10              | SSBQAM     | 1      | 0         | 18.81                | 18.82                | 18.78                                                               |              |          |  |  |  |  |
| 10              | SSBQAM     | 1      | 25        | 18.81                | 18.86                | 18.82                                                               | 20           | 4        |  |  |  |  |
| 10              | SSBQAM     | 1      | 49        | 18.81                | 18.83                | 18.86                                                               |              |          |  |  |  |  |
| 10              | SSBQAM     | 25     | 0         | 18.80                | 18.84                | 18.83                                                               |              |          |  |  |  |  |
| 10              | SSBQAM     | 25     | 12        | 18.84                | 18.88                | 18.85                                                               | 20           | 4        |  |  |  |  |
| 10              | SSBQAM     | 25     | 25        | 18.84                | 18.87                | 18.82                                                               |              |          |  |  |  |  |
| 10              | SSBQAM     | 50     | 0         | 18.80                | 18.88                | 18.81                                                               |              |          |  |  |  |  |
| Channel         |            |        |           |                      |                      |                                                                     |              |          |  |  |  |  |
| Frequency (MHz) |            |        |           | 20625                | 20630                | 20635                                                               | Timeup (int) | MRR (dB) |  |  |  |  |
|                 |            |        |           | 20615                | 20616                | 20617                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 22.42                | 22.42                | 22.52                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 12        | 22.48                | 22.60                | 22.58                                                               | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.38                | 22.54                | 22.48                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 22.44                | 22.67                | 22.58                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 7         | 22.38                | 22.44                | 22.55                                                               | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 12     | 14        | 22.45                | 22.53                | 22.48                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 22.40                | 22.47                | 22.54                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 22.27                | 22.33                | 22.44                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.37                | 22.44                | 22.44                                                               | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.37                | 22.34                | 22.36                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 21.27                | 21.38                | 21.44                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 7         | 21.36                | 21.43                | 21.44                                                               | 23           | 1        |  |  |  |  |
| 5               | QPSK       | 12     | 14        | 21.43                | 21.34                | 21.42                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 21.36                | 21.37                | 21.40                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 21.35                | 21.33                | 21.31                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 1      | 12        | 21.35                | 21.33                | 21.42                                                               | 23           | 1        |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 21.29                | 21.43                | 21.47                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 20.37                | 20.33                | 20.42                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 12     | 7         | 20.40                | 20.41                | 20.37                                                               | 22           | 2        |  |  |  |  |
| 5               | QPSK       | 12     | 14        | 20.47                | 20.35                | 20.48                                                               |              |          |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 20.36                | 20.40                | 20.39                                                               |              |          |  |  |  |  |
| 5               | SSBQAM     | 1      | 0         | 18.74                | 18.74                | 18.75                                                               |              |          |  |  |  |  |
| 5               | SSBQAM     | 1      | 12        | 18.81                | 18.85                | 18.87                                                               | 20           | 4        |  |  |  |  |
| 5               | SSBQAM     | 1      | 24        | 18.80                | 18.83                | 18.88                                                               |              |          |  |  |  |  |
| 5               | SSBQAM     | 12     | 0         | 18.74                | 18.72                | 18.76                                                               |              |          |  |  |  |  |
| 5               | SSBQAM     | 12     | 7         | 18.80                | 18.81                | 18.86                                                               | 20           | 4        |  |  |  |  |
| 5               | SSBQAM     | 12     | 14        | 18.81                | 18.76                | 18.70                                                               |              |          |  |  |  |  |
| 5               | SSBQAM     | 25     | 0         | 18.78                | 18.85                | 18.72                                                               |              |          |  |  |  |  |
| Channel         |            |        |           |                      |                      |                                                                     |              |          |  |  |  |  |
| Frequency (MHz) |            |        |           | 20615                | 20616                | 20617 <th>Timeup (int)</th> <th>MRR (dB)</th> <th colspan="4"></th> | Timeup (int) | MRR (dB) |  |  |  |  |
|                 |            |        |           | 20615                | 20616                | 20617                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 0         | 22.33                | 22.39                | 22.53                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 8         | 22.48                | 22.58                | 22.58                                                               | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 1      | 16        | 22.40                | 22.47                | 22.53                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 0         | 22.48                | 22.54                | 22.51                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 4         | 22.38                | 22.39                | 22.52                                                               | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 8      | 7         | 22.44                | 22.47                | 22.44                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 16     | 0         | 22.43                | 22.50                | 22.48                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 0         | 22.30                | 22.31                | 22.39                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 16        | 22.42                | 22.47                | 22.42                                                               | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 1      | 16        | 22.39                | 22.39                | 22.33                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 0         | 21.31                | 21.38                | 21.43                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 4         | 21.38                | 21.46                | 21.42                                                               | 23           | 1        |  |  |  |  |
| 3               | QPSK       | 8      | 7         | 21.39                | 21.37                | 21.46                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 15     | 0         | 21.37                | 21.36                | 21.41                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 0         | 21.38                | 21.38                | 21.32                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 1      | 8         | 21.33                | 21.31                | 21.40                                                               | 23           | 1        |  |  |  |  |
| 3               | QPSK       | 1      | 16        | 21.28                | 21.40                | 21.52                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 0         | 20.34                | 20.36                | 20.47                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 8      | 4         | 20.40                | 20.44                | 20.37                                                               | 22           | 2        |  |  |  |  |
| 3               | QPSK       | 8      | 7         | 20.42                | 20.37                | 20.41                                                               |              |          |  |  |  |  |
| 3               | QPSK       | 15     | 0         | 20.35                | 20.41                | 20.38                                                               |              |          |  |  |  |  |
| 3               | SSBQAM     | 1      | 0         | 18.69                | 18.76                | 18.71                                                               |              |          |  |  |  |  |
| 3               | SSBQAM     | 1      | 8         | 18.85                | 18.81                | 18.84                                                               | 20           | 4        |  |  |  |  |
| 3               | SSBQAM     | 1      | 16        | 18.81                | 18.80                | 18.84                                                               |              |          |  |  |  |  |
| 3               | SSBQAM     | 8      | 0         | 18.80                | 18.77                | 18.76                                                               |              |          |  |  |  |  |
| 3               | SSBQAM     | 8      | 4         | 18.74                | 18.84                | 18.80                                                               | 20           | 4        |  |  |  |  |
| 3               | SSBQAM     | 8      | 7         | 18.75                | 18.79                | 18.76                                                               |              |          |  |  |  |  |
| 3               | SSBQAM     | 15     | 0         | 18.78                | 18.76                | 18.73                                                               |              |          |  |  |  |  |
| Channel         |            |        |           |                      |                      |                                                                     |              |          |  |  |  |  |
| Frequency (MHz) |            |        |           | 20607                | 20608                | 20613 <th>Timeup (int)</th> <th>MRR (dB)</th> <th colspan="4"></th> | Timeup (int) | MRR (dB) |  |  |  |  |
|                 |            |        |           | 20617                | 20618                | 20613                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.33                | 22.39                | 22.49                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 3         | 22.48                | 22.56                | 22.51                                                               | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 1      | 6         | 22.36                | 22.47                | 22.52                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 0         | 22.51                | 22.49                | 22.49                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 1         | 22.40                | 22.42                | 22.48                                                               | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 3      | 3         | 22.43                | 22.46                | 22.41                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 6      | 0         | 22.40                | 22.62                | 22.48                                                               | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.25                | 22.28                | 22.40                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 6         | 22.34                | 22.42                | 22.40                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 6         | 22.39                | 22.34                | 22.35                                                               | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 3      | 0         | 22.49                | 22.49                | 22.52                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 3         | 22.34                | 22.44                | 22.49                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 6      | 0         | 21.32                | 21.39                | 21.43                                                               | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 6      | 1         | 21.37                | 21.39                | 21.34                                                               | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 6      | 3         | 21.40                | 21.40                | 21.44                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 1      | 0         | 21.26                | 21.43                | 21.50                                                               | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 1      | 6         | 21.36                | 21.43                | 21.43                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 0         | 21.30                | 21.33                | 21.34                                                               |              |          |  |  |  |  |
| 1.4             | QPSK       | 3      | 1         | 21.42                | 21.36                | 21.43                                                               | 22           | 2        |  |  |  |  |
| 1.4             | QPSK       | 3      | 3         | 20.38                | 20.36                | 20.37                                                               |              |          |  |  |  |  |
| 1.4             | SSBQAM     | 1      | 0         | 18.73                | 18.74                | 18.74                                                               |              |          |  |  |  |  |
| 1.4             | SSBQAM     | 1      | 3         | 18.90                | 18.86                | 18.92                                                               | 20           | 4        |  |  |  |  |
| 1.4             | SSBQAM     | 1      | 6         | 18.87                | 18.80                | 18.82                                                               |              |          |  |  |  |  |
| 1.4             | SSBQAM     | 3      | 0         | 18.70                | 18.78                | 18.74                                                               |              |          |  |  |  |  |
| 1.4             | SSBQAM     | 3      | 1         | 18.76                | 18.84                | 18.73                                                               |              |          |  |  |  |  |
| 1.4             | SSBQAM     | 6      | 0         | 18.78                | 18.79                | 18.73                                                               | 20           | 4        |  |  |  |  |

| Band 5_Ant 1    |            |         |           |                      |                      |                       |              |          |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|--------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq. | Timeup (int) | MRR (dB) |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |              |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 26450                | 26525                | 26600                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.42                | 22.50                | 22.58                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.53                | 22.64                | 22.62                 | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.46                | 22.54                | 22.63                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.44                | 22.54                | 22.58                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.42                | 22.56                | 22.61                 | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.52                | 22.58                | 22.56                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.45                | 22.49                | 22.49                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.45                | 22.53                | 22.53                 | 24           | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.43                | 22.52                | 22.52                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.40                | 22.47                | 22.47                 | 23           |          |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.42                | 22.49                | 22.49                 |              |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.43                | 22.43                | 22.43                 | 23           |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.42                | 21.53                | 21.64                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 21.53                | 21.63                | 21.71                 | 23           |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 21.49                | 21.63                | 21.63                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 20.53                | 20.54                | 20.54                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 20.53                | 20.61                | 20.61                 | 22           | 2        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 20.47                | 20.58                | 20.61                 |              |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 20.54                | 20.40                | 20.35                 |              |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 20.54                | 20.37                | 20.35                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 18.52                | 18.70                | 18.60                 |              |          |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 18.62                | 18.70                | 18.60                 | 24           |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 18.70                | 18.73                | 18.65                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 18.73                | 18.84                | 18.84                 |              |          |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 18.84                | 18.72                | 18.62                 | 24           |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 18.68                | 18.70                | 18.62                 |              |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 18.68                | 18.65                | 18.60                 | 24           |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |              |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 26425                | 26500                | 26575                 | Timeup (int) | MRR (dB) |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.43                | 22.43                | 22.43                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.40                | 22.52                | 22.59                 | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.41                | 22.47                | 22.40                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.39                | 22.50                | 22.50                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.39                | 22.43                | 22.47                 | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.32                | 22.49                | 22.48                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 19        | 22.40                | 22.43                | 22.43                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.42                | 22.42                | 22.43                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.39                | 22.50                | 22.43                 | 24           | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.43                | 22.39                | 22.43                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.02                | 21.09                | 21.20                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.13                | 21.18                | 21.17                 | 23           | 1        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.03                | 21.18                | 21.18                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 19        | 21.05                | 21.12                | 21.11                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 21.33                | 21.50                | 21.62                 | 23           | 1        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 21.43                | 21.55                | 21.61                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 21.43                | 21.60                | 21.57                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 20.18                | 20.24                | 20.41                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 20.28                | 20.32                | 20.32                 | 22           | 2        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 20.28                | 20.28                | 20.28                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 19        | 20.23                | 20.28                | 20.27                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 25        | 20.23                | 20.28                | 20.27                 |              |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 18.52                | 18.66                | 18.48                 | 20           | 4        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 18.65                | 18.63                | 18.50                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 18.52                | 18.66                | 18.48                 | 20           | 4        |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 18.59                | 18.61                | 18.51                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 18.58                | 18.65                | 18.51                 | 20           | 4        |  |  |  |  |
| 5               | QPSK       | 12      | 19        | 18.58                | 18.65                | 18.51                 |              |          |  |  |  |  |
| 5               | QPSK       | 12      | 25        | 18.58                | 18.65                | 18.51                 | 20           | 4        |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |              |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 26415                | 26505                | 26595                 | Timeup (int) | MRR (dB) |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.31                | 22.31                | 22.31                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.27                | 22.48                | 22.43                 | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 1       | 28        | 22.31                | 22.31                | 22.31                 |              |          |  |  |  |  |
| 3               | QPSK       | 14      | 0         | 22.28                | 22.48                | 22.43                 |              |          |  |  |  |  |
| 3               | QPSK       | 14      | 7         | 22.32                | 22.51                | 22.53                 | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 14      | 14        | 22.31                | 22.48                | 22.48                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.33                | 22.33                | 22.33                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.34                | 22.42                | 22.48                 | 24           | 0        |  |  |  |  |
| 3               | QPSK       | 1       | 16        | 22.33                | 22.38                | 22.38                 |              |          |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 21.00                | 21.07                | 21.21                 |              |          |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 21.09                | 21.21                | 21.27                 | 23           | 1        |  |  |  |  |
| 3               | QPSK       | 8       | 12        | 21.18                | 21.21                | 21.21                 |              |          |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 21.03                | 21.13                | 21.14                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 21.26                | 21.43                | 21.66                 | 23           | 1        |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 21.34                | 21.54                | 21.62                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 21.46                | 21.54                | 21.56                 |              |          |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 20.12                | 20.23                | 20.28                 | 22           | 2        |  |  |  |  |
| 3               | QPSK       | 8       | 8         | 20.22                | 20.28                | 20.28                 |              |          |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 20.25                | 20.30                | 20.29                 |              |          |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 20.25                | 20.36                | 20.36                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 18.51                | 18.63                | 18.56                 | 20           | 4        |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 18.60                | 18.66                | 18.55                 |              |          |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 18.63                | 18.66                | 18.56                 | 20           | 4        |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 18.56                | 18.68                | 18.58                 |              |          |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 18.58                | 18.64                | 18.53                 | 20           | 4        |  |  |  |  |
| 3               | QPSK       | 8       | 14        | 18.58                | 18.65                | 18.55                 |              |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |              |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 26407                | 26505                | 26603                 | Timeup (int) | MRR (dB) |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.39                | 22.49                | 22.52                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 14        | 22.48                | 22.48                | 22.48                 | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.44                | 22.43                | 22.42                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.43                | 22.53                | 22.59                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 14        | 22.38                | 22.48                | 22.48                 | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 22.38                | 22.48                | 22.42                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 6         | 22.37                | 22.43                | 22.42                 | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.39                | 22.47                | 22.47                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 14        | 22.40                | 22.47                | 22.47                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.34                | 22.50                | 22.49                 | 24           | 0        |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.32                | 22.47                | 22.47                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.32                | 22.47                | 22.47                 | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.39                | 21.41                | 21.58                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 14        | 21.59                | 21.68                | 21.68                 | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.40                | 21.57                | 21.57                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.35                | 21.46                | 21.61                 | 23           | 1        |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.56                | 21.57                | 21.57                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.41                | 21.51                | 21.54                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 20.24                | 20.38                | 20.25                 | 22           | 2        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 18.51                | 18.51                | 18.51                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.58                | 18.59                | 18.52                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.65                | 18.62                | 18.58                 | 20           | 4        |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.65                | 18.59                | 18.53                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.54                | 18.68                | 18.68                 |              |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 18.58                | 18.65                | 18.53                 | 20           | 4        |  |  |  |  |





| Band 12_Ant 0   |            |         |           |                     |                     |                      |                  |          |    |   |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|------------------|----------|----|---|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Timeup int (dBs) | MPR (dB) |    |   |
| Channel         |            |         |           |                     |                     |                      |                  |          |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |                  |          |    |   |
| 10              | QPSK       | 1       | 0         | 22.78               | 22.85               | 22.85                |                  |          |    |   |
| 10              | QPSK       | 1       | 25        | 22.85               | 22.94               | 22.93                | 24               | 0        |    |   |
| 10              | QPSK       | 1       | 49        | 22.92               | 22.92               | 22.94                |                  |          |    |   |
| 10              | QPSK       | 25      | 0         | 22.91               | 22.91               | 22.92                |                  |          |    |   |
| 10              | QPSK       | 25      | 12        | 22.87               | 22.94               | 22.90                |                  |          | 24 | 0 |
| 10              | QPSK       | 25      | 25        | 22.84               | 22.97               | 22.89                |                  |          |    |   |
| 10              | QPSK       | 50      | 0         | 22.85               | 22.87               | 22.91                |                  |          |    |   |
| 10              | HQAM       | 1       | 0         | 22.79               | 22.86               | 22.78                |                  |          |    |   |
| 10              | HQAM       | 1       | 25        | 22.82               | 22.87               | 22.82                | 24               | 0        |    |   |
| 10              | HQAM       | 1       | 49        | 22.89               | 22.86               | 22.71                |                  |          |    |   |
| 10              | HQAM       | 25      | 0         | 22.84               | 22.74               | 22.15                |                  |          |    |   |
| 10              | HQAM       | 25      | 12        | 22.10               | 22.28               | 22.00                |                  |          |    |   |
| 10              | HQAM       | 25      | 25        | 22.18               | 22.23               | 22.25                | 23               | 1        |    |   |
| 10              | HQAM       | 50      | 0         | 22.11               | 22.15               | 22.14                |                  |          |    |   |
| 10              | HQAM       | 1       | 0         | 22.10               | 22.11               | 21.18                |                  |          |    |   |
| 10              | HQAM       | 1       | 25        | 22.22               | 22.20               | 22.32                | 23               | 1        |    |   |
| 10              | HQAM       | 1       | 49        | 22.28               | 22.36               | 22.48                |                  |          |    |   |
| 10              | HQAM       | 25      | 0         | 21.92               | 21.70               | 21.14                |                  |          |    |   |
| 10              | HQAM       | 25      | 12        | 21.13               | 21.18               | 21.16                |                  |          |    |   |
| 10              | HQAM       | 25      | 25        | 21.11               | 21.18               | 21.22                | 22               | 2        |    |   |
| 10              | HQAM       | 50      | 0         | 21.13               | 21.11               | 21.18                |                  |          |    |   |
| 10              | SSBQAM     | 1       | 0         | 19.21               | 19.23               | 19.19                |                  |          |    |   |
| 10              | SSBQAM     | 1       | 25        | 19.32               | 19.27               | 19.31                | 20               | 4        |    |   |
| 10              | SSBQAM     | 1       | 49        | 19.15               | 19.39               | 19.18                |                  |          |    |   |
| 10              | SSBQAM     | 25      | 0         | 19.30               | 19.36               | 19.34                |                  |          |    |   |
| 10              | SSBQAM     | 25      | 12        | 19.28               | 19.25               | 19.24                | 20               | 4        |    |   |
| 10              | SSBQAM     | 25      | 25        | 19.28               | 19.34               | 19.30                |                  |          |    |   |
| 10              | SSBQAM     | 50      | 0         | 19.27               | 19.30               | 19.26                |                  |          |    |   |
| Channel         |            |         |           |                     |                     |                      |                  |          |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |                  |          |    |   |
| 754.5           |            |         |           |                     |                     |                      |                  |          |    |   |
| 5               | QPSK       | 1       | 0         | 22.73               | 22.77               | 22.82                |                  |          |    |   |
| 5               | QPSK       | 1       | 12        | 22.69               | 22.83               | 22.96                | 24               | 0        |    |   |
| 5               | QPSK       | 1       | 24        | 22.81               | 22.78               | 22.79                |                  |          |    |   |
| 5               | QPSK       | 12      | 0         | 22.88               | 22.83               | 22.85                |                  |          |    |   |
| 5               | QPSK       | 12      | 7         | 22.80               | 22.84               | 22.85                | 24               | 0        |    |   |
| 5               | QPSK       | 12      | 13        | 22.82               | 22.87               | 22.78                |                  |          |    |   |
| 5               | QPSK       | 25      | 0         | 22.89               | 22.87               | 22.84                |                  |          |    |   |
| 5               | HQAM       | 1       | 0         | 22.70               | 22.74               | 22.74                | 24               | 0        |    |   |
| 5               | HQAM       | 1       | 12        | 22.77               | 22.82               | 22.77                |                  |          |    |   |
| 5               | HQAM       | 1       | 24        | 22.73               | 22.68               | 22.59                |                  |          |    |   |
| 5               | HQAM       | 12      | 0         | 21.94               | 22.05               | 22.08                |                  |          |    |   |
| 5               | HQAM       | 12      | 7         | 22.16               | 22.07               | 22.11                |                  |          |    |   |
| 5               | HQAM       | 12      | 13        | 22.09               | 22.15               | 22.14                | 23               | 1        |    |   |
| 5               | HQAM       | 25      | 0         | 22.00               | 22.07               | 22.04                |                  |          |    |   |
| 5               | HQAM       | 25      | 12        | 22.08               | 22.29               | 22.14                |                  |          |    |   |
| 5               | HQAM       | 1       | 12        | 22.10               | 22.42               | 22.29                | 23               | 1        |    |   |
| 5               | HQAM       | 1       | 24        | 22.40               | 22.36               | 22.43                |                  |          |    |   |
| 5               | HQAM       | 12      | 0         | 21.10               | 21.08               | 21.10                |                  |          |    |   |
| 5               | HQAM       | 12      | 7         | 21.10               | 21.08               | 21.09                | 22               | 2        |    |   |
| 5               | HQAM       | 12      | 13        | 20.96               | 21.10               | 21.15                |                  |          |    |   |
| 5               | HQAM       | 25      | 0         | 19.12               | 19.17               | 19.14                |                  |          |    |   |
| 5               | SSBQAM     | 1       | 0         | 19.21               | 19.32               | 19.22                | 20               | 4        |    |   |
| 5               | SSBQAM     | 1       | 12        | 19.30               | 19.18               | 19.20                |                  |          |    |   |
| 5               | SSBQAM     | 1       | 24        | 19.15               | 19.38               | 19.15                |                  |          |    |   |
| 5               | SSBQAM     | 12      | 0         | 19.25               | 19.24               | 19.23                |                  |          |    |   |
| 5               | SSBQAM     | 12      | 7         | 19.28               | 19.18               | 19.20                | 20               | 4        |    |   |
| 5               | SSBQAM     | 12      | 13        | 19.18               | 19.22               | 19.15                |                  |          |    |   |
| 5               | SSBQAM     | 25      | 0         | 19.22               | 19.25               | 19.21                |                  |          |    |   |
| Channel         |            |         |           |                     |                     |                      |                  |          |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |                  |          |    |   |
| 754.5           |            |         |           |                     |                     |                      |                  |          |    |   |
| 3               | QPSK       | 1       | 0         | 22.67               | 22.79               | 22.75                |                  |          |    |   |
| 3               | QPSK       | 1       | 8         | 22.68               | 22.69               | 22.87                | 24               | 0        |    |   |
| 3               | QPSK       | 1       | 14        | 22.83               | 22.81               | 22.88                |                  |          |    |   |
| 3               | QPSK       | 8       | 0         | 22.84               | 22.83               | 22.83                |                  |          |    |   |
| 3               | QPSK       | 8       | 4         | 22.81               | 22.82               | 22.78                | 24               | 0        |    |   |
| 3               | QPSK       | 1       | 8         | 22.72               | 22.88               | 22.81                |                  |          |    |   |
| 3               | QPSK       | 15      | 0         | 22.84               | 22.84               | 22.85                |                  |          |    |   |
| 3               | HQAM       | 1       | 0         | 22.71               | 22.79               | 22.73                |                  |          |    |   |
| 3               | HQAM       | 1       | 8         | 22.70               | 22.82               | 22.75                | 24               | 0        |    |   |
| 3               | HQAM       | 1       | 14        | 22.72               | 22.77               | 22.68                |                  |          |    |   |
| 3               | HQAM       | 8       | 0         | 22.61               | 22.69               | 22.10                |                  |          |    |   |
| 3               | HQAM       | 8       | 4         | 22.69               | 22.10               | 22.17                | 23               | 1        |    |   |
| 3               | HQAM       | 8       | 7         | 22.14               | 22.14               | 22.20                |                  |          |    |   |
| 3               | HQAM       | 15      | 0         | 22.64               | 22.64               | 22.68                |                  |          |    |   |
| 3               | HQAM       | 1       | 0         | 22.68               | 22.31               | 22.13                |                  |          |    |   |
| 3               | HQAM       | 1       | 8         | 22.16               | 22.41               | 22.27                | 23               | 1        |    |   |
| 3               | HQAM       | 1       | 14        | 22.16               | 22.29               | 22.43                |                  |          |    |   |
| 3               | HQAM       | 8       | 0         | 20.97               | 21.07               | 21.08                |                  |          |    |   |
| 3               | HQAM       | 8       | 4         | 21.09               | 21.08               | 21.10                | 22               | 2        |    |   |
| 3               | HQAM       | 15      | 0         | 20.96               | 21.09               | 21.17                |                  |          |    |   |
| 3               | SSBQAM     | 1       | 0         | 19.10               | 19.13               | 19.08                |                  |          |    |   |
| 3               | SSBQAM     | 1       | 8         | 19.26               | 19.32               | 19.22                | 20               | 4        |    |   |
| 3               | SSBQAM     | 1       | 14        | 19.16               | 19.35               | 19.12                |                  |          |    |   |
| 3               | SSBQAM     | 8       | 0         | 19.24               | 19.32               | 19.26                |                  |          |    |   |
| 3               | SSBQAM     | 8       | 4         | 19.13               | 19.13               | 19.19                | 20               | 4        |    |   |
| 3               | SSBQAM     | 8       | 7         | 19.22               | 19.22               | 19.18                |                  |          |    |   |
| 3               | SSBQAM     | 15      | 0         | 19.23               | 19.19               | 19.18                |                  |          |    |   |
| Channel         |            |         |           |                     |                     |                      |                  |          |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |                  |          |    |   |
| 759.7           |            |         |           |                     |                     |                      |                  |          |    |   |
| 1.4             | QPSK       | 1       | 0         | 22.73               | 22.76               | 22.76                |                  |          |    |   |
| 1.4             | QPSK       | 1       | 3         | 22.63               | 22.63               | 22.83                | 24               | 0        |    |   |
| 1.4             | QPSK       | 1       | 6         | 22.83               | 22.84               | 22.87                |                  |          |    |   |
| 1.4             | QPSK       | 3       | 0         | 22.82               | 22.87               | 22.87                |                  |          |    |   |
| 1.4             | QPSK       | 3       | 1         | 22.83               | 22.84               | 22.84                |                  |          |    |   |
| 1.4             | QPSK       | 3       | 3         | 22.81               | 22.86               | 22.83                | 24               | 0        |    |   |
| 1.4             | QPSK       | 6       | 0         | 22.85               | 22.81               | 22.79                |                  |          |    |   |
| 1.4             | HQAM       | 1       | 0         | 22.72               | 22.83               | 22.71                |                  |          |    |   |
| 1.4             | HQAM       | 1       | 3         | 22.77               | 22.82               | 22.78                |                  |          |    |   |
| 1.4             | HQAM       | 1       | 6         | 22.78               | 22.74               | 22.61                |                  |          |    |   |
| 1.4             | HQAM       | 3       | 0         | 22.77               | 22.86               | 22.82                | 24               | 0        |    |   |
| 1.4             | HQAM       | 3       | 1         | 22.86               | 22.83               | 22.84                |                  |          |    |   |
| 1.4             | HQAM       | 3       | 3         | 22.72               | 22.81               | 22.66                |                  |          |    |   |
| 1.4             | HQAM       | 6       | 0         | 22.65               | 22.66               | 22.69                | 23               | 1        |    |   |
| 1.4             | HQAM       | 6       | 0         | 22.67               | 22.30               | 22.22                |                  |          |    |   |
| 1.4             | HQAM       | 1       | 3         | 22.12               | 22.41               | 22.24                |                  |          |    |   |
| 1.4             | HQAM       | 1       | 6         | 22.24               | 22.33               | 22.37                | 23               | 1        |    |   |
| 1.4             | HQAM       | 3       | 0         | 22.91               | 22.12               | 22.04                |                  |          |    |   |
| 1.4             | HQAM       | 3       | 1         | 22.13               | 22.26               | 22.16                |                  |          |    |   |
| 1.4             | HQAM       | 3       | 3         | 22.16               | 22.41               | 22.29                |                  |          |    |   |
| 1.4             | HQAM       | 6       | 0         | 21.67               | 21.01               | 21.10                | 22               | 2        |    |   |
| 1.4             | SSBQAM     | 1       | 0         | 19.13               | 19.15               | 19.08                |                  |          |    |   |
| 1.4             | SSBQAM     | 1       | 3         | 19.26               | 19.31               | 19.22                |                  |          |    |   |
| 1.4             | SSBQAM     | 1       | 6         | 19.04               | 19.13               | 19.07                | 20               | 4        |    |   |
| 1.4             | SSBQAM     | 3       | 0         | 19.32               | 19.22               | 19.22                |                  |          |    |   |
| 1.4             | SSBQAM     | 3       | 1         | 19.14               | 19.16               | 19.12                |                  |          |    |   |
| 1.4             | SSBQAM     | 3       | 3         | 19.22               | 19.25               | 19.23                |                  |          |    |   |
| 1.4             | SSBQAM     | 6       | 0         | 19.25               | 19.25               | 19.19                | 20               | 4        |    |   |

| Band 12_Ant 1   |            |         |           |                     |                     |                      |                   |          |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|-------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Time-up int (Sec) | MPR (dB) |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |
| 10              | QPSK       | 1       | 0         | 22.71               | 22.71               | 22.78                |                   |          |  |  |
| 10              | QPSK       | 1       | 25        | 22.65               | 22.81               | 22.86                | 24                | 0        |  |  |
| 10              | QPSK       | 1       | 49        | 22.82               | 22.84               | 22.84                |                   |          |  |  |
| 10              | QPSK       | 25      | 0         | 22.85               | 22.85               | 22.85                |                   |          |  |  |
| 10              | QPSK       | 25      | 12        | 22.80               | 22.86               | 22.80                |                   |          |  |  |
| 10              | QPSK       | 25      | 25        | 22.77               | 22.83               | 22.77                | 24                | 0        |  |  |
| 10              | QPSK       | 50      | 0         | 22.88               | 22.88               | 22.84                |                   |          |  |  |
| 10              | HQAM       | 1       | 0         | 22.77               | 22.80               | 22.77                |                   |          |  |  |
| 10              | HQAM       | 1       | 25        | 22.77               | 22.82               | 22.81                | 24                | 0        |  |  |
| 10              | HQAM       | 1       | 49        | 22.81               | 22.77               | 22.82                |                   |          |  |  |
| 10              | HQAM       | 25      | 0         | 21.68               | 21.70               | 21.76                |                   |          |  |  |
| 10              | HQAM       | 25      | 12        | 21.62               | 21.75               | 21.63                |                   |          |  |  |
| 10              | HQAM       | 25      | 25        | 21.78               | 21.82               | 21.86                | 23                | 1        |  |  |
| 10              | HQAM       | 50      | 0         | 21.78               | 21.72               | 21.81                |                   |          |  |  |
| 10              | HQAM       | 1       | 0         | 21.88               | 21.91               | 21.96                |                   |          |  |  |
| 10              | HQAM       | 1       | 25        | 21.98               | 22.04               | 22.15                | 23                | 1        |  |  |
| 10              | HQAM       | 1       | 49        | 21.96               | 22.02               | 22.17                |                   |          |  |  |
| 10              | HQAM       | 25      | 0         | 20.98               | 20.71               | 20.72                |                   |          |  |  |
| 10              | HQAM       | 25      | 12        | 20.94               | 20.77               | 20.79                |                   |          |  |  |
| 10              | HQAM       | 25      | 25        | 20.94               | 20.82               | 20.89                | 22                | 2        |  |  |
| 10              | HQAM       | 50      | 0         | 20.94               | 20.78               | 20.85                |                   |          |  |  |
| 10              | HQAM       | 1       | 0         | 18.99               | 18.99               | 19.07                |                   |          |  |  |
| 10              | HQAM       | 1       | 25        | 19.00               | 19.10               | 19.04                | 20                | 4        |  |  |
| 10              | HQAM       | 1       | 49        | 19.07               | 18.99               | 19.04                |                   |          |  |  |
| 10              | HQAM       | 25      | 0         | 18.99               | 18.95               | 19.05                |                   |          |  |  |
| 10              | HQAM       | 25      | 12        | 18.98               | 18.98               | 18.98                | 20                | 4        |  |  |
| 10              | HQAM       | 25      | 25        | 18.98               | 18.98               | 18.98                |                   |          |  |  |
| 10              | HQAM       | 50      | 0         | 18.97               | 18.95               | 18.98                |                   |          |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |
| 5               | QPSK       | 1       | 0         | 22.67               | 22.62               | 22.63                |                   |          |  |  |
| 5               | QPSK       | 1       | 12        | 22.66               | 22.65               | 22.74                | 24                | 0        |  |  |
| 5               | QPSK       | 1       | 24        | 22.77               | 22.78               | 22.75                |                   |          |  |  |
| 5               | QPSK       | 12      | 0         | 22.73               | 22.73               | 22.73                |                   |          |  |  |
| 5               | QPSK       | 12      | 13        | 22.70               | 22.73               | 22.69                | 24                | 0        |  |  |
| 5               | QPSK       | 12      | 25        | 22.82               | 22.78               | 22.82                |                   |          |  |  |
| 5               | HQAM       | 1       | 0         | 22.67               | 22.77               | 22.71                |                   |          |  |  |
| 5               | HQAM       | 1       | 12        | 22.65               | 22.74               | 22.72                | 24                | 0        |  |  |
| 5               | HQAM       | 1       | 24        | 22.78               | 22.68               | 22.71                |                   |          |  |  |
| 5               | HQAM       | 12      | 0         | 21.60               | 21.66               | 21.69                |                   |          |  |  |
| 5               | HQAM       | 12      | 7         | 21.76               | 21.69               | 21.65                | 23                | 1        |  |  |
| 5               | HQAM       | 12      | 13        | 21.83               | 21.69               | 21.71                |                   |          |  |  |
| 5               | HQAM       | 12      | 25        | 21.67               | 21.62               | 21.71                | 23                | 1        |  |  |
| 5               | HQAM       | 1       | 0         | 21.62               | 21.61               | 21.61                |                   |          |  |  |
| 5               | HQAM       | 1       | 12        | 21.63               | 21.59               | 21.61                | 23                | 1        |  |  |
| 5               | HQAM       | 1       | 24        | 21.92               | 21.55               | 22.15                |                   |          |  |  |
| 5               | HQAM       | 12      | 0         | 20.75               | 20.67               | 20.67                | 22                | 2        |  |  |
| 5               | HQAM       | 12      | 13        | 20.74               | 20.77               | 20.80                |                   |          |  |  |
| 5               | HQAM       | 12      | 25        | 20.78               | 20.78               | 20.78                | 20                | 4        |  |  |
| 5               | HQAM       | 25      | 0         | 19.94               | 19.92               | 19.95                |                   |          |  |  |
| 5               | HQAM       | 25      | 12        | 19.93               | 19.92               | 19.93                | 20                | 4        |  |  |
| 5               | HQAM       | 25      | 25        | 19.93               | 19.92               | 19.93                |                   |          |  |  |
| 5               | HQAM       | 50      | 0         | 18.78               | 18.85               | 18.81                | 20                | 4        |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |
| 3               | QPSK       | 1       | 0         | 22.61               | 22.60               | 22.61                |                   |          |  |  |
| 3               | QPSK       | 1       | 8         | 22.77               | 22.84               | 22.74                | 24                | 0        |  |  |
| 3               | QPSK       | 1       | 14        | 22.78               | 22.81               | 22.73                |                   |          |  |  |
| 3               | QPSK       | 8       | 0         | 22.75               | 22.75               | 22.75                | 24                | 0        |  |  |
| 3               | QPSK       | 8       | 4         | 22.75               | 22.75               | 22.75                |                   |          |  |  |
| 3               | QPSK       | 8       | 7         | 22.66               | 22.72               | 22.71                |                   |          |  |  |
| 3               | HQAM       | 1       | 0         | 22.65               | 22.73               | 22.68                |                   |          |  |  |
| 3               | HQAM       | 1       | 8         | 22.65               | 22.70               | 22.71                | 24                | 0        |  |  |
| 3               | HQAM       | 1       | 14        | 22.72               | 22.72               | 22.72                |                   |          |  |  |
| 3               | HQAM       | 8       | 0         | 21.62               | 21.61               | 21.61                | 23                | 1        |  |  |
| 3               | HQAM       | 8       | 4         | 21.71               | 21.64               | 21.67                |                   |          |  |  |
| 3               | HQAM       | 8       | 7         | 21.68               | 21.68               | 21.68                | 23                | 1        |  |  |
| 3               | HQAM       | 15      | 0         | 21.71               | 21.67               | 21.71                |                   |          |  |  |
| 3               | HQAM       | 1       | 0         | 21.62               | 21.68               | 21.64                |                   |          |  |  |
| 3               | HQAM       | 1       | 14        | 21.93               | 21.92               | 22.11                | 23                | 1        |  |  |
| 3               | HQAM       | 8       | 0         | 20.65               | 20.61               | 20.65                | 22                | 2        |  |  |
| 3               | HQAM       | 8       | 7         | 20.75               | 20.69               | 20.75                |                   |          |  |  |
| 3               | HQAM       | 15      | 0         | 20.73               | 20.75               | 20.80                |                   |          |  |  |
| 3               | HQAM       | 1       | 0         | 18.78               | 18.82               | 18.86                | 20                | 4        |  |  |
| 3               | HQAM       | 1       | 8         | 18.89               | 19.05               | 18.99                | 20                | 4        |  |  |
| 3               | HQAM       | 1       | 14        | 18.96               | 18.94               | 18.97                |                   |          |  |  |
| 3               | HQAM       | 8       | 0         | 18.85               | 18.88               | 18.91                | 20                | 4        |  |  |
| 3               | HQAM       | 8       | 4         | 18.76               | 18.86               | 18.79                |                   |          |  |  |
| 3               | HQAM       | 8       | 7         | 18.78               | 18.82               | 18.82                | 20                | 4        |  |  |
| 3               | HQAM       | 15      | 0         | 18.83               | 18.87               | 18.91                |                   |          |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.57               | 22.60               | 22.63                |                   |          |  |  |
| 1.4             | QPSK       | 1       | 8         | 22.83               | 22.85               | 22.78                | 24                | 0        |  |  |
| 1.4             | QPSK       | 1       | 6         | 22.79               | 22.80               | 22.73                |                   |          |  |  |
| 1.4             | QPSK       | 1       | 14        | 22.77               | 22.77               | 22.77                | 24                | 0        |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.68               | 22.74               | 22.74                |                   |          |  |  |
| 1.4             | QPSK       | 3       | 8         | 22.70               | 22.74               | 22.65                | 24                | 0        |  |  |
| 1.4             | QPSK       | 3       | 14        | 22.73               | 22.83               | 22.73                |                   |          |  |  |
| 1.4             | HQAM       | 1       | 0         | 22.74               | 22.88               | 22.70                |                   |          |  |  |
| 1.4             | HQAM       | 1       | 3         | 22.67               | 22.73               | 22.75                | 24                | 0        |  |  |
| 1.4             | HQAM       | 1       | 14        | 22.77               | 22.73               | 22.73                |                   |          |  |  |
| 1.4             | HQAM       | 3       | 0         | 22.66               | 22.59               | 22.70                | 24                | 0        |  |  |
| 1.4             | HQAM       | 3       | 1         | 22.65               | 22.65               | 22.62                |                   |          |  |  |
| 1.4             | HQAM       | 3       | 14        | 22.72               | 22.81               | 22.72                | 23                | 1        |  |  |
| 1.4             | HQAM       | 6       | 0         | 21.69               | 21.63               | 21.73                |                   |          |  |  |
| 1.4             | HQAM       | 1       | 0         | 21.78               | 21.79               | 21.84                | 23                | 1        |  |  |
| 1.4             | HQAM       | 1       | 14        | 21.77               | 21.93               | 21.89                |                   |          |  |  |
| 1.4             | HQAM       | 3       | 0         | 21.86               | 21.99               | 22.05                | 23                | 1        |  |  |
| 1.4             | HQAM       | 3       | 6         | 21.70               | 21.73               | 21.73                |                   |          |  |  |
| 1.4             | HQAM       | 3       | 14        | 21.75               | 21.78               | 21.81                |                   |          |  |  |
| 1.4             | HQAM       | 6       | 0         | 21.76               | 21.63               | 21.71                | 22                | 2        |  |  |
| 1.4             | HQAM       | 6       | 6         | 20.71               | 20.68               | 20.70                | 22                | 2        |  |  |
| 1.4             | HQAM       | 6       | 14        | 20.78               | 20.86               | 20.85                |                   |          |  |  |
| 1.4             | HQAM       | 1       | 0         | 19.91               | 19.97               | 19.95                | 20                | 4        |  |  |
| 1.4             | HQAM       | 1       | 6         | 19.97               | 19.98               | 19.99                |                   |          |  |  |
| 1.4             | HQAM       | 1       | 14        | 19.97               | 19.98               | 19.94                |                   |          |  |  |
| 1.4             | HQAM       | 3       | 0         | 18.78               | 18.81               | 18.82                | 20                | 4        |  |  |
| 1.4             | HQAM       | 3       | 6         | 18.86               | 18.92               | 18.91                | 20                | 4        |  |  |

| Band 14_Ant 0   |            |         |           |                      |                      |                       |               |          |  |  |  |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|---------------|----------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Tune-up (mHz) | MFR (dB) |  |  |  |
| Channel         |            |         |           |                      |                      |                       |               |          |  |  |  |
| 23355           |            |         |           |                      |                      |                       |               |          |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |               |          |  |  |  |
| 10              | QPSK       | 1       | 0         |                      | 22.89                |                       | 24            | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        |                      | 22.76                |                       |               |          |  |  |  |
| 10              | QPSK       | 1       | 49        |                      | 22.61                |                       |               |          |  |  |  |
| 10              | QPSK       | 25      | 0         |                      | 22.74                |                       |               |          |  |  |  |
| 10              | QPSK       | 25      | 12        |                      | 22.73                |                       | 24            | 0        |  |  |  |
| 10              | QPSK       | 25      | 25        |                      | 22.69                |                       |               |          |  |  |  |
| 10              | QPSK       | 50      | 0         |                      | 22.71                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 22.64                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 22.63                |                       | 24            | 0        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 22.69                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 22.69                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 22.14                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 22.17                |                       | 23            | 1        |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 22.10                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 22.04                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 22.05                |                       | 23            | 1        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 22.02                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 21.70                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 21.11                |                       | 22            | 2        |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 21.11                |                       |               |          |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 21.13                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 19.38                |                       | 20            | 4        |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 19.31                |                       |               |          |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 19.35                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 19.20                |                       |               |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 19.23                |                       | 20            | 4        |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 19.25                |                       |               |          |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 19.17                |                       |               |          |  |  |  |
| Channel         |            |         |           |                      |                      |                       |               |          |  |  |  |
| 23365           |            |         |           |                      |                      |                       |               |          |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |               |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.81                | 22.81                | 22.84                 | 24            | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.66                | 22.69                | 22.68                 |               |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.49                | 22.52                | 22.60                 |               |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.66                | 22.63                | 22.66                 |               |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.61                | 22.62                | 22.68                 | 24            | 0        |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.68                | 22.62                | 22.61                 |               |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.67                | 22.68                | 22.63                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.58                | 22.52                | 22.54                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.59                | 22.62                | 22.59                 | 24            | 0        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.62                | 22.65                | 22.65                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.64                | 22.64                | 21.98                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.63                | 22.10                | 22.02                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.10                | 22.10                | 22.13                 | 23            | 1        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.62                | 21.99                | 22.07                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.94                | 21.98                | 21.93                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.95                | 21.98                | 22.01                 | 23            | 1        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.96                | 21.92                | 21.97                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.94                | 21.06                | 20.88                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.97                | 21.08                | 21.01                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.06                | 20.99                | 21.03                 | 22            | 2        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.05                | 21.05                | 21.06                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.20                | 19.30                | 19.35                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 19.25                | 19.26                | 19.22                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 19.23                | 19.26                | 19.24                 | 20            | 4        |  |  |  |
| 5               | 16QAM      | 12      | 0         | 19.13                | 19.12                | 19.11                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 19.17                | 19.13                | 19.16                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 19.19                | 19.15                | 19.16                 |               |          |  |  |  |
| 5               | 16QAM      | 25      | 0         | 19.10                | 19.06                | 19.06                 |               |          |  |  |  |

| Band 14_Ant 1   |            |         |           |                      |                         |                       |              |          |  |  |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|--------------|----------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up (dB) | MFR (dB) |  |  |  |
| Channel         |            |         |           |                      |                         |                       |              |          |  |  |  |
| 23335           |            |         |           |                      |                         |                       |              |          |  |  |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |              |          |  |  |  |
| 10              | QPSK       | 1       | 0         |                      | 22.45                   |                       | 24           | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        |                      | 22.58                   |                       |              |          |  |  |  |
| 10              | QPSK       | 1       | 49        |                      | 22.53                   |                       |              |          |  |  |  |
| 10              | QPSK       | 25      | 0         |                      | 22.67                   |                       |              |          |  |  |  |
| 10              | QPSK       | 25      | 12        |                      | 22.64                   |                       | 24           | 0        |  |  |  |
| 10              | QPSK       | 25      | 25        |                      | 22.51                   |                       |              |          |  |  |  |
| 10              | QPSK       | 50      | 0         |                      | 22.64                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 22.49                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 22.45                   |                       | 24           | 0        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 22.45                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 21.77                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 21.78                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 21.86                   |                       | 23           | 1        |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 21.72                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 22.04                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 22.17                   |                       | 23           | 1        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 21.99                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 20.73                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 20.76                   |                       | 22           | 2        |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 20.82                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 20.72                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                      | 19.05                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                      | 19.06                   |                       | 20           | 4        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                      | 19.03                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                      | 18.97                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                      | 18.88                   |                       |              |          |  |  |  |
| 10              | 16QAM      | 25      | 25        |                      | 18.93                   |                       | 20           | 4        |  |  |  |
| 10              | 16QAM      | 50      | 0         |                      | 18.89                   |                       |              |          |  |  |  |
| Channel         |            |         |           |                      |                         |                       |              |          |  |  |  |
| 23335           |            |         |           |                      |                         |                       |              |          |  |  |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |              |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.42                | 22.36                   | 22.39                 | 24           | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.55                | 22.51                   | 22.52                 |              |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.43                | 22.42                   | 22.41                 |              |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.50                | 22.04                   | 22.53                 |              |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.45                | 22.48                   | 22.51                 | 24           | 0        |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.42                | 22.42                   | 22.42                 |              |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.45                | 22.42                   | 22.43                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.37                | 22.37                   | 22.46                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.40                | 22.38                   | 22.45                 | 24           | 0        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.38                | 22.34                   | 22.38                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.71                | 21.67                   | 21.65                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.73                | 21.66                   | 21.69                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.77                | 21.74                   | 21.77                 | 23           | 1        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.66                | 21.67                   | 21.64                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.92                | 21.94                   | 21.98                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.10                | 22.08                   | 22.10                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.97                | 21.93                   | 21.91                 | 23           | 1        |  |  |  |
| 5               | 16QAM      | 12      | 0         | 20.89                | 20.88                   | 20.82                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 20.70                | 20.65                   | 20.64                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 20.76                | 20.70                   | 20.72                 |              |          |  |  |  |
| 5               | 16QAM      | 25      | 0         | 20.65                | 20.61                   | 20.69                 | 22           | 2        |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.90                | 19.90                   | 19.96                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 19.97                | 19.91                   | 19.90                 |              |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 19.93                | 19.92                   | 19.96                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 19.80                | 19.80                   | 19.85                 | 20           | 4        |  |  |  |
| 5               | 16QAM      | 12      | 7         | 19.80                | 19.83                   | 19.83                 |              |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 19.83                | 19.85                   | 19.86                 |              |          |  |  |  |
| 5               | 16QAM      | 25      | 0         | 19.78                | 19.85                   | 19.80                 |              |          |  |  |  |

| Band 17_Ant 0   |            |         |           |                      |                      |                       |             |          |  |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|-------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Tuneup (dB) | MFR (dB) |  |
| Channel         |            |         |           |                      |                      |                       |             |          |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |             |          |  |
| 10              | QPSK       | 1       | 0         | 22.72                | 22.71                | 22.65                 | 24          | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.61                | 22.66                | 22.62                 |             |          |  |
| 10              | QPSK       | 1       | 49        | 22.63                | 22.69                | 22.65                 |             |          |  |
| 10              | QPSK       | 25      | 0         | 22.70                | 22.64                | 22.72                 |             |          |  |
| 10              | QPSK       | 25      | 12        | 22.63                | 22.61                | 22.60                 | 24          | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.69                | 22.66                | 22.75                 |             |          |  |
| 10              | QPSK       | 50      | 0         | 22.65                | 22.61                | 22.66                 |             |          |  |
| 10              | 16QAM      | 1       | 0         | 22.71                | 22.66                | 22.63                 |             |          |  |
| 10              | 16QAM      | 1       | 25        | 22.62                | 22.64                | 22.65                 | 24          | 0        |  |
| 10              | 16QAM      | 1       | 49        | 22.69                | 22.64                | 22.65                 |             |          |  |
| 10              | 16QAM      | 25      | 0         | 22.61                | 22.63                | 22.65                 |             |          |  |
| 10              | 16QAM      | 25      | 12        | 22.17                | 22.14                | 22.12                 |             |          |  |
| 10              | 16QAM      | 25      | 25        | 22.19                | 22.16                | 22.15                 | 23          | 1        |  |
| 10              | 16QAM      | 50      | 0         | 22.07                | 22.06                | 22.07                 |             |          |  |
| 10              | 16QAM      | 1       | 0         | 22.21                | 22.23                | 22.13                 |             |          |  |
| 10              | 16QAM      | 1       | 25        | 22.30                | 22.25                | 22.37                 | 23          | 1        |  |
| 10              | 16QAM      | 1       | 49        | 22.36                | 22.40                | 22.27                 |             |          |  |
| 10              | 16QAM      | 25      | 0         | 21.96                | 21.94                | 21.92                 |             |          |  |
| 10              | 16QAM      | 25      | 12        | 21.10                | 21.11                | 21.10                 |             |          |  |
| 10              | 16QAM      | 25      | 25        | 21.14                | 21.13                | 21.13                 | 22          | 2        |  |
| 10              | 16QAM      | 50      | 0         | 21.08                | 21.07                | 21.08                 |             |          |  |
| 10              | 16QAM      | 1       | 0         | 21.22                | 21.23                | 21.13                 |             |          |  |
| 10              | 16QAM      | 1       | 25        | 21.30                | 21.25                | 21.37                 |             |          |  |
| 10              | 16QAM      | 1       | 49        | 21.36                | 21.40                | 21.27                 | 20          | 4        |  |
| 10              | 16QAM      | 25      | 0         | 21.13                | 21.15                | 21.10                 |             |          |  |
| 10              | 16QAM      | 25      | 12        | 21.18                | 21.20                | 21.18                 |             |          |  |
| 10              | 16QAM      | 25      | 25        | 21.23                | 21.23                | 21.23                 |             |          |  |
| 10              | 16QAM      | 50      | 0         | 21.09                | 21.14                | 21.12                 | 20          | 4        |  |
| 10              | 16QAM      | 1       | 0         | 21.25                | 21.25                | 21.15                 |             |          |  |
| 10              | 16QAM      | 1       | 25        | 21.33                | 21.28                | 21.35                 |             |          |  |
| 10              | 16QAM      | 25      | 0         | 21.13                | 21.15                | 21.10                 |             |          |  |
| 10              | 16QAM      | 25      | 12        | 21.18                | 21.20                | 21.18                 | 20          | 4        |  |
| 10              | 16QAM      | 25      | 25        | 21.23                | 21.23                | 21.23                 |             |          |  |
| 10              | 16QAM      | 50      | 0         | 21.09                | 21.14                | 21.12                 |             |          |  |
| 10              | 16QAM      | 1       | 0         | 21.25                | 21.25                | 21.15                 |             |          |  |
| Channel         |            |         |           |                      |                      |                       |             |          |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |             |          |  |
| 5               | QPSK       | 1       | 0         | 22.63                | 22.61                | 22.65                 | 24          | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.79                | 22.68                | 22.67                 |             |          |  |
| 5               | QPSK       | 1       | 24        | 22.80                | 22.80                | 22.62                 |             |          |  |
| 5               | QPSK       | 12      | 0         | 22.68                | 22.68                | 22.68                 |             |          |  |
| 5               | QPSK       | 12      | 7         | 22.72                | 22.62                | 22.72                 | 24          | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.78                | 22.71                | 22.69                 |             |          |  |
| 5               | QPSK       | 12      | 19        | 22.78                | 22.68                | 22.78                 |             |          |  |
| 5               | 16QAM      | 1       | 0         | 22.65                | 22.60                | 22.73                 |             |          |  |
| 5               | 16QAM      | 1       | 12        | 22.80                | 22.84                | 22.65                 | 24          | 0        |  |
| 5               | 16QAM      | 1       | 24        | 22.80                | 22.84                | 22.65                 |             |          |  |
| 5               | 16QAM      | 12      | 0         | 21.97                | 21.91                | 21.97                 |             |          |  |
| 5               | 16QAM      | 12      | 7         | 22.05                | 22.09                | 22.08                 |             |          |  |
| 5               | 16QAM      | 12      | 13        | 22.05                | 22.09                | 22.08                 | 23          | 1        |  |
| 5               | 16QAM      | 12      | 19        | 22.05                | 22.09                | 22.08                 |             |          |  |
| 5               | 16QAM      | 25      | 0         | 21.97                | 22.01                | 22.01                 |             |          |  |
| 5               | 16QAM      | 25      | 12        | 22.02                | 22.06                | 22.02                 |             |          |  |
| 5               | 16QAM      | 1       | 0         | 21.96                | 21.98                | 22.00                 | 23          | 1        |  |
| 5               | 16QAM      | 1       | 12        | 22.01                | 22.04                | 22.03                 |             |          |  |
| 5               | 16QAM      | 1       | 24        | 22.02                | 22.06                | 22.02                 |             |          |  |
| 5               | 16QAM      | 12      | 7         | 21.05                | 21.00                | 21.07                 |             |          |  |
| 5               | 16QAM      | 12      | 13        | 21.05                | 21.04                | 21.05                 | 22          | 2        |  |
| 5               | 16QAM      | 12      | 19        | 21.05                | 21.04                | 21.05                 |             |          |  |
| 5               | 16QAM      | 25      | 0         | 21.07                | 21.07                | 21.07                 |             |          |  |
| 5               | 16QAM      | 25      | 12        | 21.08                | 21.02                | 21.08                 |             |          |  |
| 5               | 16QAM      | 1       | 0         | 21.08                | 21.02                | 21.08                 | 20          | 4        |  |
| 5               | 16QAM      | 1       | 12        | 21.02                | 21.02                | 21.01                 |             |          |  |
| 5               | 16QAM      | 1       | 24        | 21.03                | 21.04                | 21.03                 |             |          |  |
| 5               | 16QAM      | 12      | 7         | 21.06                | 21.03                | 21.06                 |             |          |  |
| 5               | 16QAM      | 12      | 13        | 21.06                | 21.03                | 21.06                 | 20          | 4        |  |
| 5               | 16QAM      | 12      | 19        | 21.06                | 21.03                | 21.06                 |             |          |  |
| 5               | 16QAM      | 25      | 0         | 21.04                | 21.04                | 21.04                 |             |          |  |
| 5               | 16QAM      | 25      | 12        | 21.01                | 21.04                | 21.00                 |             |          |  |



| Band 25_Ant 0 |            |            |              |                           |                            |                            |                          |             |  |  |  |  |
|---------------|------------|------------|--------------|---------------------------|----------------------------|----------------------------|--------------------------|-------------|--|--|--|--|
| RF<br>(MHz)   | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch./Freq. | Power<br>Mod.<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Time-up<br>Int.<br>(sec) | MPE<br>(dB) |  |  |  |  |
| Channel       |            |            |              |                           |                            |                            |                          |             |  |  |  |  |
| Frequency MHz |            |            |              | 26140                     | 26140                      | 26090                      |                          |             |  |  |  |  |
| 20            | QPSK       | 1          | 0            | 15.86                     | 15.95                      | 15.83                      |                          |             |  |  |  |  |
| 20            | QPSK       | 1          | 49           | 15.99                     | 16.07                      | 15.95                      | 17.4                     | 0           |  |  |  |  |
| 20            | QPSK       | 1          | 99           | 15.82                     | 15.94                      | 15.83                      |                          |             |  |  |  |  |
| 20            | QPSK       | 50         | 0            | 15.95                     | 15.93                      | 15.97                      |                          |             |  |  |  |  |
| 20            | QPSK       | 50         | 24           | 15.92                     | 15.98                      | 15.86                      | 17.4                     | 0           |  |  |  |  |
| 20            | QPSK       | 50         | 50           | 15.84                     | 15.99                      | 15.86                      |                          |             |  |  |  |  |
| 20            | QPSK       | 100        | 0            | 15.86                     | 15.91                      | 15.81                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 1          | 0            | 15.98                     | 15.96                      | 15.84                      | 17.4                     | 0           |  |  |  |  |
| 20            | 16QAM      | 1          | 49           | 15.84                     | 15.92                      | 15.83                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 1          | 99           | 15.94                     | 15.96                      | 15.88                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 50         | 0            | 15.86                     | 15.90                      | 15.86                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 50         | 24           | 15.85                     | 15.92                      | 15.93                      | 17.4                     | 0           |  |  |  |  |
| 20            | 16QAM      | 50         | 50           | 15.93                     | 15.98                      | 15.91                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 100        | 0            | 15.87                     | 15.92                      | 15.91                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 1          | 0            | 15.94                     | 15.99                      | 15.99                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 1          | 49           | 15.84                     | 15.92                      | 15.93                      | 17.4                     | 0           |  |  |  |  |
| 20            | 16QAM      | 1          | 99           | 15.87                     | 15.92                      | 15.93                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 50         | 24           | 15.97                     | 15.92                      | 15.87                      |                          |             |  |  |  |  |
| 20            | 16QAM      | 50         | 50           | 15.84                     | 15.90                      | 15.82                      | 17.4                     | 0           |  |  |  |  |
| 20            | 16QAM      | 100        | 0            | 15.88                     | 15.94                      | 15.89                      |                          |             |  |  |  |  |
| 20            | 25QAM      | 1          | 0            | 15.91                     | 15.90                      | 15.91                      |                          |             |  |  |  |  |
| 20            | 25QAM      | 1          | 49           | 15.97                     | 15.95                      | 15.92                      | 17.4                     | 0           |  |  |  |  |
| 20            | 25QAM      | 1          | 99           | 15.96                     | 15.98                      | 15.96                      |                          |             |  |  |  |  |
| 20            | 25QAM      | 50         | 0            | 15.87                     | 15.97                      | 15.92                      |                          |             |  |  |  |  |
| 20            | 25QAM      | 50         | 24           | 15.94                     | 15.93                      | 15.85                      | 17.4                     | 0           |  |  |  |  |
| 20            | 25QAM      | 50         | 50           | 15.87                     | 15.93                      | 15.85                      |                          |             |  |  |  |  |
| 20            | 25QAM      | 100        | 0            | 15.88                     | 15.92                      | 15.91                      |                          |             |  |  |  |  |
| Channel       |            |            |              | 26115                     | 26140                      | 26015                      | Time-up<br>Int.<br>(sec) | MPE<br>(dB) |  |  |  |  |
| Frequency MHz |            |            |              | 1822.5                    | 1822.5                     | 1822.5                     |                          |             |  |  |  |  |
| 15            | QPSK       | 1          | 0            | 15.74                     | 15.82                      | 15.77                      |                          |             |  |  |  |  |
| 15            | QPSK       | 1          | 37           | 15.91                     | 15.94                      | 15.80                      | 17.4                     | 0           |  |  |  |  |
| 15            | QPSK       | 1          | 74           | 15.73                     | 15.83                      | 15.78                      |                          |             |  |  |  |  |
| 15            | QPSK       | 36         | 0            | 15.90                     | 15.96                      | 15.88                      |                          |             |  |  |  |  |
| 15            | QPSK       | 36         | 20           | 15.85                     | 15.88                      | 15.74                      | 17.4                     | 0           |  |  |  |  |
| 15            | QPSK       | 36         | 39           | 15.75                     | 15.87                      | 15.78                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 1          | 0            | 15.79                     | 15.88                      | 15.88                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 1          | 37           | 15.72                     | 15.85                      | 15.83                      | 17.4                     | 0           |  |  |  |  |
| 15            | 16QAM      | 1          | 74           | 15.77                     | 15.88                      | 15.84                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 36         | 0            | 15.88                     | 15.89                      | 15.75                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 36         | 20           | 15.86                     | 15.89                      | 15.76                      | 17.4                     | 0           |  |  |  |  |
| 15            | 16QAM      | 36         | 39           | 15.73                     | 15.94                      | 15.86                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 75         | 0            | 15.71                     | 15.89                      | 15.77                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 1          | 0            | 15.79                     | 15.88                      | 15.88                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 1          | 37           | 15.72                     | 15.85                      | 15.83                      | 17.4                     | 0           |  |  |  |  |
| 15            | 16QAM      | 1          | 74           | 15.77                     | 15.88                      | 15.84                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 36         | 0            | 15.88                     | 15.89                      | 15.75                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 36         | 20           | 15.86                     | 15.89                      | 15.76                      | 17.4                     | 0           |  |  |  |  |
| 15            | 16QAM      | 36         | 39           | 15.73                     | 15.94                      | 15.86                      |                          |             |  |  |  |  |
| 15            | 16QAM      | 75         | 0            | 15.71                     | 15.89                      | 15.77                      |                          |             |  |  |  |  |
| 15            | 25QAM      | 1          | 0            | 15.77                     | 15.88                      | 15.89                      |                          |             |  |  |  |  |
| 15            | 25QAM      | 1          | 37           | 15.90                     | 15.92                      | 15.87                      | 17.4                     | 0           |  |  |  |  |
| 15            | 25QAM      | 1          | 74           | 15.84                     | 15.91                      | 15.85                      |                          |             |  |  |  |  |
| 15            | 25QAM      | 36         | 0            | 15.73                     | 15.94                      | 15.86                      |                          |             |  |  |  |  |
| 15            | 25QAM      | 36         | 20           | 15.87                     | 15.88                      | 15.74                      | 17.4                     | 0           |  |  |  |  |
| 15            | 25QAM      | 36         | 39           | 15.84                     | 15.95                      | 15.74                      |                          |             |  |  |  |  |
| 15            | 25QAM      | 75         | 0            | 15.80                     | 15.78                      | 15.89                      |                          |             |  |  |  |  |
| Channel       |            |            |              | 26090                     | 26140                      | 26060                      | Time-up<br>Int.<br>(sec) | MPE<br>(dB) |  |  |  |  |
| Frequency MHz |            |            |              | 1865                      | 1865                       | 1865                       |                          |             |  |  |  |  |
| 10            | QPSK       | 1          | 0            | 15.71                     | 15.93                      | 15.79                      |                          |             |  |  |  |  |
| 10            | QPSK       | 1          | 25           | 15.85                     | 15.94                      | 15.81                      | 17.4                     | 0           |  |  |  |  |
| 10            | QPSK       | 1          | 49           | 15.73                     | 15.93                      | 15.78                      |                          |             |  |  |  |  |
| 10            | QPSK       | 25         | 0            | 15.93                     | 15.95                      | 15.82                      |                          |             |  |  |  |  |
| 10            | QPSK       | 25         | 12           | 15.90                     | 15.97                      | 15.81                      | 17.4                     | 0           |  |  |  |  |
| 10            | QPSK       | 25         | 24           | 15.71                     | 15.84                      | 15.72                      |                          |             |  |  |  |  |
| 10            | QPSK       | 50         | 0            | 15.80                     | 15.91                      | 15.72                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 1          | 0            | 15.93                     | 15.81                      | 15.73                      | 17.4                     | 0           |  |  |  |  |
| 10            | 16QAM      | 1          | 25           | 15.74                     | 15.92                      | 15.71                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 1          | 49           | 15.82                     | 15.91                      | 15.81                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 25         | 0            | 15.80                     | 15.98                      | 15.77                      | 17.4                     | 0           |  |  |  |  |
| 10            | 16QAM      | 25         | 12           | 15.83                     | 15.91                      | 15.73                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 25         | 24           | 15.86                     | 15.94                      | 15.88                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 50         | 0            | 15.84                     | 15.91                      | 15.86                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 1          | 0            | 15.87                     | 15.98                      | 15.89                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 1          | 25           | 15.81                     | 15.83                      | 15.83                      | 17.4                     | 0           |  |  |  |  |
| 10            | 16QAM      | 1          | 49           | 15.86                     | 15.96                      | 15.81                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 25         | 0            | 15.81                     | 15.89                      | 15.74                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 25         | 12           | 15.84                     | 15.96                      | 15.84                      | 17.4                     | 0           |  |  |  |  |
| 10            | 16QAM      | 25         | 24           | 15.74                     | 15.98                      | 15.80                      |                          |             |  |  |  |  |
| 10            | 16QAM      | 50         | 0            | 15.79                     | 15.94                      | 15.89                      |                          |             |  |  |  |  |
| 10            | 25QAM      | 1          | 0            | 15.77                     | 15.95                      | 15.81                      |                          |             |  |  |  |  |
| 10            | 25QAM      | 1          | 25           | 15.95                     | 15.92                      | 15.87                      | 17.4                     | 0           |  |  |  |  |
| 10            | 25QAM      | 1          | 49           | 15.83                     | 15.95                      | 15.79                      |                          |             |  |  |  |  |
| 10            | 25QAM      | 25         | 0            | 15.76                     | 15.88                      | 15.79                      |                          |             |  |  |  |  |
| 10            | 25QAM      | 25         | 12           | 15.87                     | 15.93                      | 15.75                      | 17.4                     | 0           |  |  |  |  |
| 10            | 25QAM      | 25         | 24           | 15.86                     | 15.90                      | 15.75                      |                          |             |  |  |  |  |
| 10            | 25QAM      | 50         | 0            | 15.80                     | 15.88                      | 15.67                      |                          |             |  |  |  |  |
| Channel       |            |            |              | 26065                     | 26140                      | 26065                      | Time-up<br>Int.<br>(sec) | MPE<br>(dB) |  |  |  |  |
| Frequency MHz |            |            |              | 1892.5                    | 1892.5                     | 1892.5                     |                          |             |  |  |  |  |
| 5             | QPSK       | 1          | 0            | 15.74                     | 15.93                      | 15.76                      |                          |             |  |  |  |  |
| 5             | QPSK       | 1          | 12           | 15.88                     | 15.93                      | 15.85                      | 17.4                     | 0           |  |  |  |  |
| 5             | QPSK       | 1          | 24           | 15.82                     | 15.98                      | 15.78                      |                          |             |  |  |  |  |
| 5             | QPSK       | 12         | 0            | 15.86                     | 15.97                      | 15.76                      |                          |             |  |  |  |  |
| 5             | QPSK       | 12         | 7            | 15.80                     | 15.86                      | 15.85                      | 17.4                     | 0           |  |  |  |  |
| 5             | QPSK       | 12         | 14           | 15.80                     | 15.98                      | 15.77                      |                          |             |  |  |  |  |
| 5             | QPSK       | 25         | 0            | 15.80                     | 15.86                      | 15.67                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 1          | 0            | 15.92                     | 15.90                      | 15.72                      | 17.4                     | 0           |  |  |  |  |
| 5             | 16QAM      | 1          | 12           | 15.74                     | 15.95                      | 15.71                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 1          | 24           | 15.90                     | 15.87                      | 15.82                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 12         | 0            | 15.82                     | 15.88                      | 15.79                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 12         | 7            | 15.79                     | 15.95                      | 15.77                      | 17.4                     | 0           |  |  |  |  |
| 5             | 16QAM      | 12         | 14           | 15.84                     | 15.86                      | 15.79                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 25         | 0            | 15.84                     | 15.93                      | 15.84                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 1          | 0            | 15.83                     | 15.98                      | 15.83                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 1          | 12           | 15.81                     | 15.85                      | 15.80                      | 17.4                     | 0           |  |  |  |  |
| 5             | 16QAM      | 1          | 24           | 15.86                     | 15.90                      | 15.85                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 12         | 0            | 15.80                     | 15.91                      | 15.80                      |                          |             |  |  |  |  |
| 5             | 16QAM      | 12         | 7            | 15.93                     | 15.88                      | 15.85                      | 17.4                     | 0           |  |  |  |  |
| 5             | 16QAM      | 12         | 14           | 15.82                     | 15.89                      | 15.80                      |                          |             |  |  |  |  |
| 5             | 25QAM      | 1          | 0            | 15.82                     | 15.99                      | 15.85                      |                          |             |  |  |  |  |
| 5             | 25QAM      | 1          | 12           | 15.81                     | 15.87                      | 15.80                      | 17.4                     | 0           |  |  |  |  |
| 5             | 25QAM      | 1          | 24           | 15.81                     | 15.87                      | 15.80                      |                          |             |  |  |  |  |
| 5             | 25QAM      | 12         | 0            | 15.73                     | 15.94                      | 15.89                      |                          |             |  |  |  |  |
| 5             | 25QAM      | 12         | 7            | 15.76                     | 15.97                      | 15.77                      | 17.4                     | 0           |  |  |  |  |
| 5             | 25QAM      | 12         | 14           | 15.77                     | 15.93                      | 15.89                      |                          |             |  |  |  |  |
| 5             | 25QAM      | 25         | 0            | 15.80                     | 15.86                      | 15.78                      |                          |             |  |  |  |  |
| Channel       |            |            |              | 26015                     | 26140                      | 26015                      | Time-up<br>Int.<br>(sec) | MPE<br>(dB) |  |  |  |  |
| Frequency MHz |            |            |              | 1920                      | 1920                       | 1920                       |                          |             |  |  |  |  |
| 3             | QPSK       | 1          | 0            | 15.83                     | 15.92                      | 15.76                      |                          |             |  |  |  |  |
| 3             | QPSK       | 1          | 8            | 15.88                     | 15.97                      | 15.86                      | 17.4                     | 0           |  |  |  |  |
| 3             | QPSK       | 1          | 14           | 15.85                     | 15.93                      | 15.82                      |                          |             |  |  |  |  |
| 3             | QPSK       | 8          | 0            | 15.80                     | 15.90                      | 15.74                      |                          |             |  |  |  |  |
| 3             | QPSK       | 8          | 4            | 15.86                     | 15.83                      | 15.75                      | 17.4                     | 0           |  |  |  |  |
| 3             | QPSK       | 8          | 7            | 15.81                     | 15.96                      | 15.81                      |                          |             |  |  |  |  |
| 3             | QPSK       | 15         | 0            | 15.74                     | 15.95                      | 15.70                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 1          | 0            | 15.87                     | 15.84                      | 15.70                      | 17.4                     | 0           |  |  |  |  |
| 3             | 16QAM      | 1          | 8            | 15.76                     | 15.91                      | 15.74                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 1          | 14           | 15.82                     | 15.82                      | 15.75                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 8          | 0            | 15.78                     | 15.94                      | 15.82                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 8          | 4            | 15.83                     | 15.93                      | 15.74                      | 17.4                     | 0           |  |  |  |  |
| 3             | 16QAM      | 8          | 7            | 15.77                     | 15.97                      | 15.77                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 15         | 0            | 15.85                     | 15.95                      | 15.81                      |                          |             |  |  |  |  |
| 3             | QPSK       | 1          | 0            | 15.92                     | 15.90                      | 15.88                      | 17.4                     | 0           |  |  |  |  |
| 3             | QPSK       | 1          | 8            | 15.97                     | 15.94                      | 15.89                      |                          |             |  |  |  |  |
| 3             | QPSK       | 1          | 14           | 15.78                     | 15.87                      | 15.83                      |                          |             |  |  |  |  |
| 3             | QPSK       | 8          | 0            | 15.80                     | 15.84                      | 15.83                      | 17.4                     | 0           |  |  |  |  |
| 3             | QPSK       | 8          | 4            | 15.87                     | 15.87                      | 15.79                      |                          |             |  |  |  |  |
| 3             | QPSK       | 8          | 7            | 15.82                     | 15.99                      | 15.86                      | 17.4                     | 0           |  |  |  |  |
| 3             | 16QAM      | 15         | 0            | 15.81                     | 15.83                      | 15.69                      |                          |             |  |  |  |  |
| 3             | 16QAM      | 1          | 8            | 15.89                     | 15.89                      | 15.77                      | 17.4                     | 0           |  |  |  |  |

| Band 26(FCC)_Ant 1 |            |         |           |                     |                     |                      |                    |          |  |  |
|--------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| RF [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Time-up Int. (sec) | MPE (dB) |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 811.5               | 811.5               | 841.5                |                    |          |  |  |
| 15                 | QPSK       | 1       | 0         | 22.27               | 22.37               | 22.69                |                    |          |  |  |
| 15                 | QPSK       | 1       | 37        | 22.44               | 22.68               | 22.85                | 24                 | 0        |  |  |
| 15                 | QPSK       | 1       | 74        | 22.54               | 22.68               | 22.85                |                    |          |  |  |
| 15                 | QPSK       | 36      | 20        | 22.48               | 22.80               | 22.49                | 24                 | 0        |  |  |
| 15                 | QPSK       | 36      | 39        | 22.38               | 22.58               | 22.55                |                    |          |  |  |
| 15                 | QPSK       | 75      | 0         | 22.49               | 22.57               | 22.51                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 0         | 22.26               | 22.20               | 22.47                | 24                 | 0        |  |  |
| 15                 | 16QAM      | 1       | 37        | 22.36               | 22.40               | 22.43                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 74        | 22.38               | 22.31               | 22.41                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 0         | 21.00               | 21.19               | 21.34                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 20        | 21.09               | 21.29               | 21.41                | 23                 | 1        |  |  |
| 15                 | 16QAM      | 36      | 39        | 21.11               | 21.33               | 21.37                |                    |          |  |  |
| 15                 | 16QAM      | 75      | 0         | 21.11               | 21.26               | 21.21                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 0         | 21.16               | 21.39               | 21.49                | 23                 | 1        |  |  |
| 15                 | 16QAM      | 1       | 37        | 21.24               | 21.41               | 21.64                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 74        | 21.21               | 21.46               | 21.30                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 0         | 20.00               | 20.17               | 20.36                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 20        | 20.08               | 20.25               | 20.39                | 22                 | 2        |  |  |
| 15                 | 16QAM      | 36      | 39        | 20.09               | 20.30               | 20.38                |                    |          |  |  |
| 15                 | 16QAM      | 75      | 0         | 20.10               | 20.29               | 20.32                |                    |          |  |  |
| 15                 | 256QAM     | 1       | 0         | 18.30               | 18.32               | 18.29                |                    |          |  |  |
| 15                 | 256QAM     | 1       | 37        | 18.52               | 18.56               | 18.52                | 20                 | 4        |  |  |
| 15                 | 256QAM     | 1       | 74        | 18.65               | 18.72               | 18.64                |                    |          |  |  |
| 15                 | 256QAM     | 36      | 0         | 18.27               | 18.35               | 18.32                |                    |          |  |  |
| 15                 | 256QAM     | 36      | 20        | 18.38               | 18.44               | 18.42                | 20                 | 4        |  |  |
| 15                 | 256QAM     | 36      | 39        | 18.43               | 18.45               | 18.38                |                    |          |  |  |
| 15                 | 256QAM     | 75      | 0         | 18.41               | 18.48               | 18.42                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 819                 | 819.5               | 844                  | Time-up Int. (sec) | MPE (dB) |  |  |
| 10                 | QPSK       | 1       | 0         | 22.18               | 22.27               | 22.51                |                    |          |  |  |
| 10                 | QPSK       | 1       | 25        | 22.41               | 22.63               | 22.54                | 24                 | 0        |  |  |
| 10                 | QPSK       | 1       | 49        | 22.14               | 22.47               | 22.52                |                    |          |  |  |
| 10                 | QPSK       | 25      | 0         | 22.43               | 22.61               | 22.48                |                    |          |  |  |
| 10                 | QPSK       | 25      | 12        | 22.39               | 22.52               | 22.38                | 24                 | 0        |  |  |
| 10                 | QPSK       | 25      | 24        | 22.33               | 22.47               | 22.43                |                    |          |  |  |
| 10                 | QPSK       | 50      | 0         | 22.43               | 22.54               | 22.43                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 0         | 22.14               | 22.16               | 22.35                | 24                 | 0        |  |  |
| 10                 | 16QAM      | 1       | 25        | 22.29               | 22.38               | 22.37                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 49        | 22.30               | 22.28               | 22.36                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 0         | 21.06               | 21.10               | 21.28                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 12        | 21.00               | 21.20               | 21.34                | 23                 | 1        |  |  |
| 10                 | 16QAM      | 25      | 25        | 21.03               | 21.22               | 21.31                |                    |          |  |  |
| 10                 | 16QAM      | 50      | 0         | 21.07               | 21.14               | 21.19                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 0         | 21.13               | 21.29               | 21.31                | 23                 | 1        |  |  |
| 10                 | 16QAM      | 1       | 25        | 21.14               | 21.31               | 21.53                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 49        | 21.16               | 21.24               | 21.22                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 0         | 20.00               | 20.06               | 20.32                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 12        | 20.00               | 20.15               | 20.34                | 22                 | 2        |  |  |
| 10                 | 16QAM      | 25      | 25        | 20.02               | 20.21               | 20.35                |                    |          |  |  |
| 10                 | 16QAM      | 50      | 0         | 20.07               | 20.20               | 20.35                |                    |          |  |  |
| 10                 | 256QAM     | 1       | 0         | 18.21               | 18.23               | 18.19                |                    |          |  |  |
| 10                 | 256QAM     | 1       | 25        | 18.43               | 18.49               | 18.46                | 20                 | 4        |  |  |
| 10                 | 256QAM     | 1       | 49        | 18.54               | 18.65               | 18.55                |                    |          |  |  |
| 10                 | 256QAM     | 25      | 0         | 18.20               | 18.25               | 18.22                |                    |          |  |  |
| 10                 | 256QAM     | 25      | 12        | 18.24               | 18.24               | 18.24                | 20                 | 4        |  |  |
| 10                 | 256QAM     | 25      | 25        | 18.31               | 18.38               | 18.33                |                    |          |  |  |
| 10                 | 256QAM     | 50      | 0         | 18.38               | 18.41               | 18.39                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 816.5               | 816.5               | 846.5                | Time-up Int. (sec) | MPE (dB) |  |  |
| 5                  | QPSK       | 1       | 0         | 22.23               | 22.30               | 22.51                |                    |          |  |  |
| 5                  | QPSK       | 1       | 12        | 22.32               | 22.56               | 22.52                | 24                 | 0        |  |  |
| 5                  | QPSK       | 1       | 24        | 22.26               | 22.45               | 22.43                |                    |          |  |  |
| 5                  | QPSK       | 12      | 0         | 22.43               | 22.61               | 22.51                |                    |          |  |  |
| 5                  | QPSK       | 12      | 7         | 22.37               | 22.49               | 22.45                | 24                 | 0        |  |  |
| 5                  | QPSK       | 12      | 14        | 22.26               | 22.47               | 22.43                |                    |          |  |  |
| 5                  | QPSK       | 25      | 0         | 22.38               | 22.43               | 22.49                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 0         | 22.23               | 22.15               | 22.44                | 24                 | 0        |  |  |
| 5                  | 16QAM      | 1       | 12        | 22.32               | 22.43               | 22.32                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 24        | 22.35               | 22.19               | 22.37                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 0         | 21.00               | 21.11               | 21.30                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 7         | 21.00               | 21.18               | 21.38                | 23                 | 1        |  |  |
| 5                  | 16QAM      | 12      | 14        | 21.01               | 21.21               | 21.34                |                    |          |  |  |
| 5                  | 16QAM      | 25      | 0         | 21.03               | 21.23               | 21.21                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 0         | 21.12               | 21.32               | 21.31                | 23                 | 1        |  |  |
| 5                  | 16QAM      | 1       | 12        | 21.14               | 21.31               | 21.57                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 24        | 21.10               | 21.36               | 21.25                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 0         | 20.04               | 20.05               | 20.27                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 7         | 20.01               | 20.16               | 20.30                | 22                 | 2        |  |  |
| 5                  | 16QAM      | 12      | 14        | 20.09               | 20.24               | 20.30                |                    |          |  |  |
| 5                  | 16QAM      | 25      | 0         | 20.01               | 20.23               | 20.32                |                    |          |  |  |
| 5                  | 256QAM     | 1       | 0         | 18.20               | 18.26               | 18.24                | 20                 | 4        |  |  |
| 5                  | 256QAM     | 1       | 12        | 18.46               | 18.44               | 18.44                |                    |          |  |  |
| 5                  | 256QAM     | 1       | 24        | 18.53               | 18.62               | 18.54                |                    |          |  |  |
| 5                  | 256QAM     | 12      | 0         | 18.18               | 18.31               | 18.24                |                    |          |  |  |
| 5                  | 256QAM     | 12      | 7         | 18.24               | 18.24               | 18.24                | 20                 | 4        |  |  |
| 5                  | 256QAM     | 12      | 14        | 18.36               | 18.35               | 18.28                |                    |          |  |  |
| 5                  | 256QAM     | 25      | 0         | 18.35               | 18.39               | 18.39                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 817.5               | 817.5               | 847.5                | Time-up Int. (sec) | MPE (dB) |  |  |
| 3                  | QPSK       | 1       | 0         | 22.17               | 22.31               | 22.55                |                    |          |  |  |
| 3                  | QPSK       | 1       | 8         | 22.39               | 22.54               | 22.51                | 24                 | 0        |  |  |
| 3                  | QPSK       | 1       | 16        | 22.32               | 22.45               | 22.44                |                    |          |  |  |
| 3                  | QPSK       | 8       | 0         | 22.42               | 22.61               | 22.48                |                    |          |  |  |
| 3                  | QPSK       | 8       | 4         | 22.35               | 22.48               | 22.45                | 24                 | 0        |  |  |
| 3                  | QPSK       | 15      | 0         | 22.43               | 22.52               | 22.43                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 0         | 22.16               | 22.12               | 22.40                | 24                 | 0        |  |  |
| 3                  | 16QAM      | 1       | 8         | 22.28               | 22.37               | 22.38                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 16        | 22.31               | 22.27               | 22.34                |                    |          |  |  |
| 3                  | 16QAM      | 8       | 0         | 21.02               | 21.14               | 21.25                |                    |          |  |  |
| 3                  | 16QAM      | 8       | 4         | 21.03               | 21.18               | 21.33                | 23                 | 1        |  |  |
| 3                  | 16QAM      | 8       | 7         | 21.04               | 21.23               | 21.29                |                    |          |  |  |
| 3                  | 16QAM      | 15      | 0         | 21.08               | 21.18               | 21.26                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 0         | 21.10               | 21.29               | 21.33                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 8         | 21.18               | 21.52               | 21.53                | 23                 | 1        |  |  |
| 3                  | 16QAM      | 1       | 16        | 21.14               | 21.37               | 21.26                |                    |          |  |  |
| 3                  | 16QAM      | 8       | 0         | 20.03               | 20.14               | 20.29                |                    |          |  |  |
| 3                  | 16QAM      | 8       | 4         | 20.05               | 20.22               | 20.30                | 22                 | 2        |  |  |
| 3                  | 16QAM      | 8       | 7         | 20.03               | 20.26               | 20.26                |                    |          |  |  |
| 3                  | 16QAM      | 15      | 0         | 20.01               | 20.25               | 20.33                |                    |          |  |  |
| 3                  | 256QAM     | 1       | 0         | 18.27               | 18.27               | 18.21                |                    |          |  |  |
| 3                  | 256QAM     | 1       | 8         | 18.45               | 18.59               | 18.44                | 20                 | 4        |  |  |
| 3                  | 256QAM     | 1       | 16        | 18.56               | 18.67               | 18.58                |                    |          |  |  |
| 3                  | 256QAM     | 8       | 0         | 18.24               | 18.31               | 18.28                |                    |          |  |  |
| 3                  | 256QAM     | 8       | 4         | 18.27               | 18.32               | 18.23                | 20                 | 4        |  |  |
| 3                  | 256QAM     | 8       | 7         | 18.35               | 18.37               | 18.30                |                    |          |  |  |
| 3                  | 256QAM     | 15      | 0         | 18.31               | 18.37               | 18.37                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 814.7               | 814.7               | 846.3                | Time-up Int. (sec) | MPE (dB) |  |  |
| 1.4                | QPSK       | 1       | 0         | 22.17               | 22.31               | 22.55                |                    |          |  |  |
| 1.4                | QPSK       | 1       | 8         | 22.39               | 22.54               | 22.51                | 24                 | 0        |  |  |
| 1.4                | QPSK       | 3       | 0         | 22.44               | 22.59               | 22.47                |                    |          |  |  |
| 1.4                | QPSK       | 3       | 1         | 22.45               | 22.50               | 22.44                |                    |          |  |  |
| 1.4                | QPSK       | 3       | 3         | 22.26               | 22.53               | 22.49                | 24                 | 0        |  |  |
| 1.4                | QPSK       | 6       | 0         | 22.37               | 22.53               | 22.39                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 0         | 22.23               | 22.17               | 22.35                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 3         | 22.28               | 22.45               | 22.33                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 6         | 22.27               | 22.60               | 22.51                | 24                 | 0        |  |  |
| 1.4                | 16QAM      | 3       | 0         | 22.22               | 22.31               | 22.49                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 1         | 22.37               | 22.60               | 22.51                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 3         | 22.22               | 22.51               | 22.52                |                    |          |  |  |
| 1.4                | 16QAM      | 6       | 0         | 21.03               | 21.21               | 21.27                | 23                 | 1        |  |  |
| 1.4                | 16QAM      | 1       | 0         | 21.04               | 21.30               | 21.36                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 3         | 21.21               | 21.34               | 21.43                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 6         | 21.16               | 21.42               | 21.18                | 23                 | 1        |  |  |
| 1.4                | 16QAM      | 3       | 0         | 21.07               | 21.27               | 21.33                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 1         | 21.00               | 21.23               | 21.19                |                    |          |  |  |
| 1.4                | 16QAM      | 6       | 0         | 21.12               | 21.29               | 21.36                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 0         | 20.01               | 20.18               | 20.22                | 22                 | 2        |  |  |
| 1.4                | 16QAM      | 1       | 3         | 20.01               | 20.18               | 20.22                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 6         | 20.02               | 20.18               | 20.22                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 0         | 18.27               | 18.47               | 18.43                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 1         | 18.28               | 18.47               | 18.43                | 20                 | 4        |  |  |
| 1.4                | 16QAM      | 3       | 3         | 18.29               | 18.47               | 18.27                |                    |          |  |  |
| 1.4                | 16QAM      | 6       | 0         | 18.30               | 18.39               | 18.36                |                    |          |  |  |
| 1.4                | 16QAM      | 6       | 3         | 18.40               | 18.34               | 18.31                | 20                 | 4        |  |  |
| 1.4                | 16QAM      | 6       | 6         | 18.38               | 18.36               | 18.30                |                    |          |  |  |
| 1.4                | 16QAM      | 12      | 0         | 18.27               | 18.35               | 18.32                |                    |          |  |  |



| Band 66_Ant 0                |            |        |           |                    |                     |                    |             |          |  |  |  |  |
|------------------------------|------------|--------|-----------|--------------------|---------------------|--------------------|-------------|----------|--|--|--|--|
| BW (MHz)                     | Modulation | RB Sub | RB Offset | Power Lb Ch / Freq | Power Mde Ch / Freq | Power Hb Ch / Freq | Tauapn (ms) | MPR (dB) |  |  |  |  |
| Channel 132072 132072 132072 |            |        |           |                    |                     |                    |             |          |  |  |  |  |
| Frequency (MHz)              |            |        |           |                    |                     |                    |             |          |  |  |  |  |
| 20                           | QPSK       | 1      | 0         | 17.30              | 17.31               | 17.33              |             |          |  |  |  |  |
| 20                           | QPSK       | 1      | 48        | 17.28              | 17.34               | 17.34              | 18.4        | 0        |  |  |  |  |
| 20                           | QPSK       | 1      | 96        | 17.26              | 17.33               | 17.33              |             |          |  |  |  |  |
| 20                           | QPSK       | 50     | 24        | 17.37              | 17.28               | 17.22              |             |          |  |  |  |  |
| 20                           | QPSK       | 50     | 48        | 17.36              | 17.23               | 17.23              |             |          |  |  |  |  |
| 20                           | QPSK       | 100    | 0         | 17.28              | 17.28               | 17.15              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.19              | 17.26               | 17.19              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.27              | 17.29               | 17.21              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.24              | 17.32               | 17.18              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.22              | 17.26               | 17.17              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.27              | 17.28               | 17.22              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.18              | 17.32               | 17.23              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.16              | 17.22               | 17.19              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.13              | 17.24               | 17.10              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 17.23              | 17.33               | 17.15              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 17.13              | 17.24               | 17.21              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 17.23              | 17.26               | 17.20              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 17.19              | 17.19               | 17.11              | 18.4        | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 17.19              | 17.30               | 17.26              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 17.18              | 17.19               | 17.09              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 17.21              | 17.28               | 17.09              |             |          |  |  |  |  |

| Band 66_Ant 1                |            |        |           |                    |                     |                    |             |          |  |  |  |  |
|------------------------------|------------|--------|-----------|--------------------|---------------------|--------------------|-------------|----------|--|--|--|--|
| BW (MHz)                     | Modulation | RB Sub | RB Offset | Power Lb Ch / Freq | Power Mde Ch / Freq | Power Hb Ch / Freq | Tauapn (ms) | MPR (dB) |  |  |  |  |
| Channel 132072 132072 132072 |            |        |           |                    |                     |                    |             |          |  |  |  |  |
| Frequency (MHz)              |            |        |           |                    |                     |                    |             |          |  |  |  |  |
| 20                           | QPSK       | 1      | 0         | 16.62              | 16.69               | 16.57              |             |          |  |  |  |  |
| 20                           | QPSK       | 1      | 48        | 16.63              | 16.74               | 16.69              | 18          | 0        |  |  |  |  |
| 20                           | QPSK       | 1      | 96        | 16.61              | 16.69               | 16.55              |             |          |  |  |  |  |
| 20                           | QPSK       | 50     | 0         | 16.61              | 16.69               | 16.52              |             |          |  |  |  |  |
| 20                           | QPSK       | 50     | 24        | 16.56              | 16.67               | 16.59              | 18          | 0        |  |  |  |  |
| 20                           | QPSK       | 50     | 48        | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.67               | 16.56              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.50              | 16.62               | 16.50              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.50              | 16.67               | 16.57              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.53              | 16.67               | 16.66              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.50              | 16.71               | 16.63              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.50              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.53              | 16.64               | 16.56              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.50              | 16.70               | 16.60              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.54              | 16.65               | 16.54              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.56              | 16.66               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.50              | 16.66               | 16.67              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.51              | 16.72               | 16.64              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.50              | 16.68               | 16.59              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.63               | 16.52              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 96        | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 16.59              | 16.63               | 16.58              |             |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 16.58              | 16.67               | 16.60              | 18          | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 48        | 16.58              | 16.60               | 16.55              |             |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 16.51              | 16.62               | 16.54              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 16.52              | 16.63               | 16.50              |             |          |  |  |  |  |
| 20                           | HQAM       | 1      | 48        | 16.57              | 16.63               | 16.58              | 18          | 0        |  |  |  |  |

| Band 38_Ant 9   |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------|-------------------------|----------------------|---------------------|----------|--|--|--|--|--|--|--|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq Co | Power High Ch / Freq Co | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 19.41                  | 19.41                   | 19.28                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 19.39                  | 19.45                   | 19.39                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 19.39                  | 19.47                   | 19.24                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 19.40                  | 19.46                   | 19.34                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 19.37                  | 19.43                   | 19.25                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 19.39                  | 19.45                   | 19.30                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 19.40                  | 19.45                   | 19.39                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 19.51                  | 19.39                   | 19.32                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 19.39                  | 19.52                   | 19.25                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 19.38                  | 19.45                   | 19.27                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 19.38                  | 19.42                   | 19.33                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 19.47                  | 19.50                   | 19.24                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 19.48                  | 19.49                   | 19.35                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 19.38                  | 19.43                   | 19.37                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 19.41                  | 19.50                   | 19.32                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 19.42                  | 19.52                   | 19.29                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 19.43                  | 19.44                   | 19.25                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 19.42                  | 19.47                   | 19.34                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 19.42                  | 19.41                   | 19.26                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 19.44                  | 19.4                    | 19.28                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 19.47                  | 19.46                   | 19.28                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 0         | 19.30                  | 19.33                   | 19.28                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 49        | 19.11                  | 19.20                   | 19.15                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 0         | 19.38                  | 19.44                   | 19.38                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 24        | 19.32                  | 19.37                   | 19.33                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 50        | 19.32                  | 19.32                   | 19.32                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 100     | 0         | 19.38                  | 19.44                   | 19.42                |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 19.33                  | 19.38                   | 19.22                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 19.51                  | 19.52                   | 19.32                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 19.36                  | 19.33                   | 19.25                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 19.37                  | 19.44                   | 19.21                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 19.33                  | 19.42                   | 19.17                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 19.35                  | 19.36                   | 19.25                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 19.38                  | 19.31                   | 19.23                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 19.36                  | 19.33                   | 19.22                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 19.32                  | 19.37                   | 19.18                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 19.31                  | 19.42                   | 19.21                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 19.23                  | 19.30                   | 19.28                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 19.40                  | 19.36                   | 19.19                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 19.39                  | 19.34                   | 19.24                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 19.24                  | 19.37                   | 19.35                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 19.31                  | 19.38                   | 19.28                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 19.31                  | 19.48                   | 19.13                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 19.30                  | 19.35                   | 19.22                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 19.27                  | 19.43                   | 19.25                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 19.37                  | 19.28                   | 19.19                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 19.40                  | 19.34                   | 19.14                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 19.45                  | 19.33                   | 19.24                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 0         | 19.52                  | 19.27                   | 19.25                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 37        | 19.08                  | 19.13                   | 19.09                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 74        | 19.05                  | 19.12                   | 19.02                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 0         | 19.35                  | 19.32                   | 19.28                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 20        | 19.29                  | 19.32                   | 19.21                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 39        | 19.28                  | 19.24                   | 19.23                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 75      | 0         | 19.29                  | 19.39                   | 19.37                |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 19.27                  | 19.37                   | 19.28                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 19.51                  | 19.39                   | 19.35                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 19.36                  | 19.35                   | 19.18                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 19.40                  | 19.38                   | 19.19                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 19.25                  | 19.30                   | 19.15                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 19.24                  | 19.36                   | 19.22                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 19.36                  | 19.37                   | 19.21                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 19.48                  | 19.25                   | 19.30                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 19.33                  | 19.46                   | 19.15                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 19.25                  | 19.40                   | 19.18                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 19.25                  | 19.36                   | 19.22                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 19.39                  | 19.39                   | 19.21                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 19.34                  | 19.45                   | 19.26                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 19.23                  | 19.32                   | 19.35                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 19.31                  | 19.43                   | 19.17                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 19.31                  | 19.43                   | 19.22                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 19.36                  | 19.29                   | 19.24                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 19.40                  | 19.42                   | 19.30                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 19.35                  | 19.39                   | 19.14                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 19.43                  | 19.34                   | 19.15                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 19.32                  | 19.39                   | 19.21                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 1       | 0         | 19.25                  | 19.26                   | 19.16                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 1       | 25        | 19.08                  | 19.16                   | 19.11                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 1       | 49        | 19.04                  | 19.04                   | 18.98                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 25      | 0         | 19.32                  | 19.34                   | 19.31                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 25      | 12        | 19.25                  | 19.32                   | 19.26                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 25      | 25        | 19.26                  | 19.30                   | 19.26                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10              | 256QAM     | 50      | 0         | 19.26                  | 19.36                   | 19.39                |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                        |                         |                      |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 19.38                  | 19.32                   | 19.21                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 19.41                  | 19.41                   | 19.24                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 19.31                  | 19.46                   | 19.11                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 19.42                  | 19.31                   | 19.26                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 19.23                  | 19.28                   | 19.17                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 19.35                  | 19.32                   | 19.27                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 19.30                  | 19.41                   | 19.33                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.45                  | 19.32                   | 19.21                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 19.34                  | 19.42                   | 19.12                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 19.34                  | 19.36                   | 19.13                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 19.34                  | 19.30                   | 19.23                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 19.41                  | 19.26                   | 19.13                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 19.36                  | 19.42                   | 19.19                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 19.37                  | 19.38                   | 19.31                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 19.27                  | 19.44                   | 19.27                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 19.38                  | 19.4                    | 19.20                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 19.32                  | 19.30                   | 19.13                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 19.32                  | 19.42                   | 19.19                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 19.40                  | 19.32                   | 19.12                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 19.34                  | 19.27                   | 19.17                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 19.46                  | 19.38                   | 19.22                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 19.19                  | 19.26                   | 19.24                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 19.21                  | 19.28                   | 19.11                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 19.01                  | 19.07                   | 19.05                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 19.33                  | 19.33                   | 19.29                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 19.20                  | 19.21                   | 19.29                |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 12      | 13        | 19.25                  | 19.25                   | 19.28                | 20.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 19.26                  | 19.35                   | 19.32                |                     |          |  |  |  |  |  |  |  |  |  |  |

| Band 41 (HPUE)_Ant 9 |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
|----------------------|------------|---------|-----------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------|----------|---|---------------------|----------|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | For CC Power Low Ch / Freq                                                                                                         | Power Low Ch / Freq                                                                                                  | Power Low Mid Ch / Freq                                                                                | Power High Mid Ch / Freq                                                                 | Power High Ch / Freq                                                          | Turn-up limit (dBm) | MPR (dB) |   |                     |          |  |  |
| Channel              |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
|                      |            |         |           | 39790                                                                                                                              | 39750                                                                                                                | 40185                                                                                                  | 40620                                                                                    | 41055                                                                         | 41490               |          |   |                     |          |  |  |
| Frequency (MHz)      |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
| 20                   | QPSK       | 1       | 0         | 2103                                                                                                                               | 2104                                                                                                                 | 2113                                                                                                   | 2134                                                                                     | 2085                                                                          | 2136                | 22.1     | 0 |                     |          |  |  |
| 20                   | QPSK       | 1       | 99        | 2104                                                                                                                               | 2104                                                                                                                 | 2113                                                                                                   | 2128                                                                                     | 2092                                                                          | 2147                |          |   |                     |          |  |  |
| 20                   | QPSK       | 50      | 0         | 2056                                                                                                                               | 2115                                                                                                                 | 2120                                                                                                   | 2137                                                                                     | 2088                                                                          | 2143                | 22.1     | 0 |                     |          |  |  |
| 20                   | QPSK       | 50      | 24        | 2052                                                                                                                               | 2110                                                                                                                 | 2113                                                                                                   | 2133                                                                                     | 2083                                                                          | 2133                |          |   |                     |          |  |  |
| 20                   | QPSK       | 50      | 49        | 2053                                                                                                                               | 2114                                                                                                                 | 2118                                                                                                   | 2135                                                                                     | 2086                                                                          | 2141                | 22.1     | 0 |                     |          |  |  |
| 20                   | QPSK       | 100     | 0         | 2104                                                                                                                               | 2106                                                                                                                 | 2119                                                                                                   | 2135                                                                                     | 2083                                                                          | 2137                |          |   |                     |          |  |  |
| 20                   | 16QAM      | 1       | 0         | 2056                                                                                                                               | 2103                                                                                                                 | 2116                                                                                                   | 2137                                                                                     | 2084                                                                          | 2143                | 22.1     | 0 |                     |          |  |  |
| 20                   | 16QAM      | 1       | 49        | 2055                                                                                                                               | 2107                                                                                                                 | 2110                                                                                                   | 2129                                                                                     | 2081                                                                          | 2143                |          |   |                     |          |  |  |
| 20                   | 16QAM      | 50      | 0         | 2104                                                                                                                               | 2106                                                                                                                 | 2120                                                                                                   | 2132                                                                                     | 2085                                                                          | 2142                | 22.1     | 0 |                     |          |  |  |
| 20                   | 16QAM      | 50      | 0         | 2054                                                                                                                               | 2113                                                                                                                 | 2120                                                                                                   | 2130                                                                                     | 2095                                                                          | 2135                |          |   |                     |          |  |  |
| 20                   | 16QAM      | 50      | 24        | 2053                                                                                                                               | 2109                                                                                                                 | 2117                                                                                                   | 2128                                                                                     | 2088                                                                          | 2138                | 22.1     | 0 |                     |          |  |  |
| 20                   | 16QAM      | 50      | 50        | 2057                                                                                                                               | 2114                                                                                                                 | 2116                                                                                                   | 2129                                                                                     | 2083                                                                          | 2133                |          |   |                     |          |  |  |
| 20                   | 64QAM      | 1       | 0         | 2053                                                                                                                               | 2115                                                                                                                 | 2111                                                                                                   | 2127                                                                                     | 2090                                                                          | 2146                | 22.1     | 0 |                     |          |  |  |
| 20                   | 64QAM      | 1       | 49        | 2053                                                                                                                               | 2114                                                                                                                 | 2116                                                                                                   | 2125                                                                                     | 2088                                                                          | 2139                |          |   |                     |          |  |  |
| 20                   | 64QAM      | 1       | 99        | 2052                                                                                                                               | 2105                                                                                                                 | 2110                                                                                                   | 2126                                                                                     | 2088                                                                          | 2143                | 22.1     | 0 |                     |          |  |  |
| 20                   | 64QAM      | 50      | 0         | 2057                                                                                                                               | 2109                                                                                                                 | 2115                                                                                                   | 2132                                                                                     | 2094                                                                          | 2140                |          |   |                     |          |  |  |
| 20                   | 64QAM      | 50      | 0         | 2057                                                                                                                               | 2109                                                                                                                 | 2114                                                                                                   | 2126                                                                                     | 2095                                                                          | 2144                | 22.1     | 0 |                     |          |  |  |
| 20                   | 64QAM      | 50      | 24        | 2056                                                                                                                               | 2106                                                                                                                 | 2112                                                                                                   | 2123                                                                                     | 2094                                                                          | 2141                |          |   |                     |          |  |  |
| 20                   | 64QAM      | 50      | 50        | 2104                                                                                                                               | 2104                                                                                                                 | 2112                                                                                                   | 2128                                                                                     | 2084                                                                          | 2134                | 22.1     | 0 |                     |          |  |  |
| 20                   | 64QAM      | 100     | 0         | 2053                                                                                                                               | 2115                                                                                                                 | 2108                                                                                                   | 2134                                                                                     | 2081                                                                          | 2136                |          |   |                     |          |  |  |
| 20                   | 256QAM     | 1       | 0         | 2053                                                                                                                               | 2114                                                                                                                 | 2112                                                                                                   | 2132                                                                                     | 2093                                                                          | 2132                | 22.1     | 0 |                     |          |  |  |
| 20                   | 256QAM     | 1       | 49        | 2053                                                                                                                               | 2115                                                                                                                 | 2108                                                                                                   | 2136                                                                                     | 2088                                                                          | 2141                |          |   |                     |          |  |  |
| 20                   | 256QAM     | 1       | 99        | 2055                                                                                                                               | 2104                                                                                                                 | 2112                                                                                                   | 2128                                                                                     | 2093                                                                          | 2133                | 22.1     | 0 |                     |          |  |  |
| 20                   | 256QAM     | 50      | 0         | 2053                                                                                                                               | 2116                                                                                                                 | 2109                                                                                                   | 2135                                                                                     | 2086                                                                          | 2144                |          |   |                     |          |  |  |
| 20                   | 256QAM     | 50      | 24        | 2057                                                                                                                               | 2110                                                                                                                 | 2115                                                                                                   | 2132                                                                                     | 2093                                                                          | 2138                | 22.1     | 0 |                     |          |  |  |
| 20                   | 256QAM     | 50      | 50        | 2103                                                                                                                               | 2105                                                                                                                 | 2119                                                                                                   | 2129                                                                                     | 2080                                                                          | 2143                |          |   |                     |          |  |  |
| 20                   | 256QAM     | 100     | 0         | 2055                                                                                                                               | 2109                                                                                                                 | 2113                                                                                                   | 2125                                                                                     | 2089                                                                          | 2137                | 22.1     | 0 |                     |          |  |  |
| Channel              |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
|                      |            |         |           | 39795 <th>39725<th>40173<th>40620<th>41058<th>41515</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th></th></th> | 39725 <th>40173<th>40620<th>41058<th>41515</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th></th> | 40173 <th>40620<th>41058<th>41515</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th> | 40620 <th>41058<th>41515</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th> | 41058 <th>41515</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <td></td> | 41515               |          |   | Turn-up limit (dBm) | MPR (dB) |  |  |
| 15                   | QPSK       | 1       | 0         | 2102                                                                                                                               | 2100                                                                                                                 | 2110                                                                                                   | 2130                                                                                     | 2070                                                                          | 2124                | 22.1     | 0 |                     |          |  |  |
| 15                   | QPSK       | 1       | 37        | 2101                                                                                                                               | 2109                                                                                                                 | 2118                                                                                                   | 2135                                                                                     | 2087                                                                          | 2136                |          |   |                     |          |  |  |
| 15                   | QPSK       | 1       | 74        | 2091                                                                                                                               | 2098                                                                                                                 | 2109                                                                                                   | 2118                                                                                     | 2082                                                                          | 2130                | 22.1     | 0 |                     |          |  |  |
| 15                   | QPSK       | 36      | 0         | 2085                                                                                                                               | 2107                                                                                                                 | 2115                                                                                                   | 2136                                                                                     | 2083                                                                          | 2132                |          |   |                     |          |  |  |
| 15                   | QPSK       | 36      | 20        | 2079                                                                                                                               | 2104                                                                                                                 | 2106                                                                                                   | 2126                                                                                     | 2077                                                                          | 2122                | 22.1     | 0 |                     |          |  |  |
| 15                   | QPSK       | 36      | 39        | 2079                                                                                                                               | 2106                                                                                                                 | 2112                                                                                                   | 2121                                                                                     | 2071                                                                          | 2128                |          |   |                     |          |  |  |
| 15                   | QPSK       | 75      | 0         | 2102                                                                                                                               | 2092                                                                                                                 | 2107                                                                                                   | 2120                                                                                     | 2088                                                                          | 2135                | 22.1     | 0 |                     |          |  |  |
| 15                   | QPSK       | 75      | 20        | 2081                                                                                                                               | 2102                                                                                                                 | 2105                                                                                                   | 2128                                                                                     | 2074                                                                          | 2137                |          |   |                     |          |  |  |
| 15                   | 16QAM      | 1       | 0         | 2084                                                                                                                               | 2102                                                                                                                 | 2110                                                                                                   | 2128                                                                                     | 2074                                                                          | 2137                | 22.1     | 0 |                     |          |  |  |
| 15                   | 16QAM      | 1       | 37        | 2084                                                                                                                               | 2096                                                                                                                 | 2102                                                                                                   | 2120                                                                                     | 2083                                                                          | 2142                |          |   |                     |          |  |  |
| 15                   | 16QAM      | 1       | 74        | 2092                                                                                                                               | 2091                                                                                                                 | 2117                                                                                                   | 2119                                                                                     | 2082                                                                          | 2128                | 22.1     | 0 |                     |          |  |  |
| 15                   | 16QAM      | 36      | 0         | 2082                                                                                                                               | 2104                                                                                                                 | 2117                                                                                                   | 2117                                                                                     | 2082                                                                          | 2134                |          |   |                     |          |  |  |
| 15                   | 16QAM      | 36      | 20        | 2081                                                                                                                               | 2106                                                                                                                 | 2115                                                                                                   | 2127                                                                                     | 2077                                                                          | 2128                | 22.1     | 0 |                     |          |  |  |
| 15                   | 16QAM      | 36      | 39        | 2085                                                                                                                               | 2104                                                                                                                 | 2112                                                                                                   | 2127                                                                                     | 2076                                                                          | 2120                |          |   |                     |          |  |  |
| 15                   | 16QAM      | 75      | 0         | 2085                                                                                                                               | 2102                                                                                                                 | 2110                                                                                                   | 2128                                                                                     | 2083                                                                          | 2134                | 22.1     | 0 |                     |          |  |  |
| 15                   | 64QAM      | 1       | 0         | 2083                                                                                                                               | 2105                                                                                                                 | 2113                                                                                                   | 2122                                                                                     | 2087                                                                          | 2134                |          |   |                     |          |  |  |
| 15                   | 64QAM      | 1       | 37        | 2079                                                                                                                               | 2093                                                                                                                 | 2106                                                                                                   | 2113                                                                                     | 2085                                                                          | 2118                | 22.1     | 0 |                     |          |  |  |
| 15                   | 64QAM      | 1       | 74        | 2099                                                                                                                               | 2107                                                                                                                 | 2110                                                                                                   | 2115                                                                                     | 2087                                                                          | 2126                |          |   |                     |          |  |  |
| 15                   | 64QAM      | 36      | 0         | 2086                                                                                                                               | 2098                                                                                                                 | 2110                                                                                                   | 2120                                                                                     | 2089                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| 15                   | 64QAM      | 36      | 20        | 2081                                                                                                                               | 2102                                                                                                                 | 2105                                                                                                   | 2126                                                                                     | 2077                                                                          | 2139                |          |   |                     |          |  |  |
| 15                   | 64QAM      | 36      | 39        | 2089                                                                                                                               | 2099                                                                                                                 | 2103                                                                                                   | 2119                                                                                     | 2079                                                                          | 2122                | 22.1     | 0 |                     |          |  |  |
| 15                   | 64QAM      | 75      | 0         | 2082                                                                                                                               | 2108                                                                                                                 | 2106                                                                                                   | 2122                                                                                     | 2088                                                                          | 2123                |          |   |                     |          |  |  |
| 15                   | 256QAM     | 1       | 0         | 2086                                                                                                                               | 2109                                                                                                                 | 2104                                                                                                   | 2126                                                                                     | 2078                                                                          | 2116                | 22.1     | 0 |                     |          |  |  |
| 15                   | 256QAM     | 1       | 37        | 2086                                                                                                                               | 2109                                                                                                                 | 2097                                                                                                   | 2124                                                                                     | 2071                                                                          | 2139                |          |   |                     |          |  |  |
| 15                   | 256QAM     | 1       | 74        | 2084                                                                                                                               | 2094                                                                                                                 | 2112                                                                                                   | 2120                                                                                     | 2074                                                                          | 2122                | 22.1     | 0 |                     |          |  |  |
| 15                   | 256QAM     | 36      | 0         | 2083                                                                                                                               | 2110                                                                                                                 | 2099                                                                                                   | 2125                                                                                     | 2075                                                                          | 2132                |          |   |                     |          |  |  |
| 15                   | 256QAM     | 36      | 20        | 2084                                                                                                                               | 2102                                                                                                                 | 2105                                                                                                   | 2128                                                                                     | 2077                                                                          | 2135                | 22.1     | 0 |                     |          |  |  |
| 15                   | 256QAM     | 36      | 39        | 2086                                                                                                                               | 2113                                                                                                                 | 2109                                                                                                   | 2125                                                                                     | 2084                                                                          | 2137                |          |   |                     |          |  |  |
| 15                   | 256QAM     | 75      | 0         | 2089                                                                                                                               | 2102                                                                                                                 | 2111                                                                                                   | 2119                                                                                     | 2088                                                                          | 2125                | 22.1     | 0 |                     |          |  |  |
| Channel              |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
|                      |            |         |           | 39790                                                                                                                              | 39700                                                                                                                | 40160                                                                                                  | 40620                                                                                    | 41080                                                                         | 41540               |          |   | Turn-up limit (dBm) | MPR (dB) |  |  |
| 10                   | QPSK       | 1       | 0         | 2096                                                                                                                               | 2092                                                                                                                 | 2141                                                                                                   | 2190                                                                                     | 2235                                                                          | 2280                | 22.1     | 0 |                     |          |  |  |
| 10                   | QPSK       | 1       | 25        | 2094                                                                                                                               | 2098                                                                                                                 | 2110                                                                                                   | 2121                                                                                     | 2075                                                                          | 2129                |          |   |                     |          |  |  |
| 10                   | QPSK       | 1       | 49        | 2102                                                                                                                               | 2089                                                                                                                 | 2110                                                                                                   | 2124                                                                                     | 2088                                                                          | 2128                | 22.1     | 0 |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 2091                                                                                                                               | 2100                                                                                                                 | 2117                                                                                                   | 2127                                                                                     | 2087                                                                          | 2137                |          |   |                     |          |  |  |
| 10                   | QPSK       | 25      | 12        | 2081                                                                                                                               | 2102                                                                                                                 | 2099                                                                                                   | 2131                                                                                     | 2079                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| 10                   | QPSK       | 25      | 25        | 2087                                                                                                                               | 2105                                                                                                                 | 2117                                                                                                   | 2123                                                                                     | 2083                                                                          | 2128                |          |   |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 2082                                                                                                                               | 2101                                                                                                                 | 2113                                                                                                   | 2120                                                                                     | 2085                                                                          | 2134                | 22.1     | 0 |                     |          |  |  |
| 10                   | QPSK       | 50      | 24        | 2083                                                                                                                               | 2104                                                                                                                 | 2106                                                                                                   | 2127                                                                                     | 2077                                                                          | 2138                |          |   |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 2082                                                                                                                               | 2101                                                                                                                 | 2108                                                                                                   | 2117                                                                                     | 2078                                                                          | 2133                | 22.1     | 0 |                     |          |  |  |
| 10                   | 16QAM      | 1       | 49        | 2093                                                                                                                               | 2097                                                                                                                 | 2115                                                                                                   | 2117                                                                                     | 2081                                                                          | 2138                |          |   |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 2089                                                                                                                               | 2105                                                                                                                 | 2112                                                                                                   | 2127                                                                                     | 2087                                                                          | 2133                | 22.1     | 0 |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 2085                                                                                                                               | 2098                                                                                                                 | 2113                                                                                                   | 2122                                                                                     | 2079                                                                          | 2130                |          |   |                     |          |  |  |
| 10                   | 16QAM      | 25      | 25        | 2082                                                                                                                               | 2105                                                                                                                 | 2106                                                                                                   | 2124                                                                                     | 2078                                                                          | 2125                | 22.1     | 0 |                     |          |  |  |
| 10                   | 16QAM      | 50      | 0         | 2087                                                                                                                               | 2110                                                                                                                 | 2107                                                                                                   | 2124                                                                                     | 2087                                                                          | 2144                |          |   |                     |          |  |  |
| 10                   | 16QAM      | 50      | 24        | 2081                                                                                                                               | 2107                                                                                                                 | 2107                                                                                                   | 2127                                                                                     | 2077                                                                          | 2138                | 22.1     | 0 |                     |          |  |  |
| 10                   | 16QAM      | 50      | 49        | 2082                                                                                                                               | 2098                                                                                                                 | 2112                                                                                                   | 2122                                                                                     | 2075                                                                          | 2124                |          |   |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 2090                                                                                                                               | 2089                                                                                                                 | 2110                                                                                                   | 2128                                                                                     | 2079                                                                          | 2131                | 22.1     | 0 |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 2082                                                                                                                               | 2103                                                                                                                 | 2112                                                                                                   | 2123                                                                                     | 2089                                                                          | 2136                |          |   |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 2081                                                                                                                               | 2091                                                                                                                 | 2100                                                                                                   | 2121                                                                                     | 2074                                                                          | 2126                | 22.1     | 0 |                     |          |  |  |
| 10                   | 64QAM      | 25      | 25        | 2091                                                                                                                               | 2103                                                                                                                 | 2110                                                                                                   | 2125                                                                                     | 2080                                                                          | 2119                |          |   |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 2088                                                                                                                               | 2110                                                                                                                 | 2106                                                                                                   | 2132                                                                                     | 2077                                                                          | 2123                | 22.1     | 0 |                     |          |  |  |
| 10                   | 64QAM      | 50      | 24        | 2078                                                                                                                               | 2110                                                                                                                 | 2105                                                                                                   | 2123                                                                                     | 2081                                                                          | 2129                |          |   |                     |          |  |  |
| 10                   | 256QAM     | 1       | 0         | 2078                                                                                                                               | 2113                                                                                                                 | 2122                                                                                                   | 2133                                                                                     | 2091                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| 10                   | 256QAM     | 1       | 25        | 2086                                                                                                                               | 2103                                                                                                                 | 2097                                                                                                   | 2121                                                                                     | 2077                                                                          | 2133                |          |   |                     |          |  |  |
| 10                   | 256QAM     | 1       | 49        | 2091                                                                                                                               | 2098                                                                                                                 | 2117                                                                                                   | 2124                                                                                     | 2071                                                                          | 2120                | 22.1     | 0 |                     |          |  |  |
| 10                   | 256QAM     | 25      | 0         | 2086                                                                                                                               | 2110                                                                                                                 | 2104                                                                                                   | 2126                                                                                     | 2078                                                                          | 2136                |          |   |                     |          |  |  |
| 10                   | 256QAM     | 25      | 12        | 2093                                                                                                                               | 2095                                                                                                                 | 2114                                                                                                   | 2119                                                                                     | 2088                                                                          | 2131                | 22.1     | 0 |                     |          |  |  |
| 10                   | 256QAM     | 25      | 25        | 2093                                                                                                                               | 2101                                                                                                                 | 2108                                                                                                   | 2125                                                                                     | 2086                                                                          | 2130                |          |   |                     |          |  |  |
| 10                   | 256QAM     | 50      | 0         | 2090                                                                                                                               | 2099                                                                                                                 | 2098                                                                                                   | 2118                                                                                     | 2086                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| Channel              |            |         |           |                                                                                                                                    |                                                                                                                      |                                                                                                        |                                                                                          |                                                                               |                     |          |   |                     |          |  |  |
|                      |            |         |           | 39795 <th>39785<th>40148<th>40620<th>41050<th>41555</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th></th></th> | 39785 <th>40148<th>40620<th>41050<th>41555</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th></th> | 40148 <th>40620<th>41050<th>41555</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th></th> | 40620 <th>41050<th>41555</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th><td></td></th> | 41050 <th>41555</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <td></td> | 41555               |          |   | Turn-up limit (dBm) | MPR (dB) |  |  |
| 5                    | QPSK       | 1       | 0         | 2101                                                                                                                               | 2105                                                                                                                 | 2112                                                                                                   | 2122                                                                                     | 2083                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| 5                    | QPSK       | 1       | 24        | 2102                                                                                                                               | 2113                                                                                                                 | 2120                                                                                                   | 2130                                                                                     | 2084                                                                          | 2137                |          |   |                     |          |  |  |
| 5                    | QPSK       | 1       | 24        | 2100                                                                                                                               | 2093                                                                                                                 | 2108                                                                                                   | 2117                                                                                     | 2084                                                                          | 2117                | 22.1     | 0 |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 2087                                                                                                                               | 2106                                                                                                                 | 2111                                                                                                   | 2130                                                                                     | 2086                                                                          | 2131                |          |   |                     |          |  |  |
| 5                    | QPSK       | 12      | 12        | 2089                                                                                                                               | 2108                                                                                                                 | 2106                                                                                                   | 2122                                                                                     | 2089                                                                          | 2131                | 22.1     | 0 |                     |          |  |  |
| 5                    | QPSK       | 12      | 13        | 2091                                                                                                                               | 2103                                                                                                                 | 2103                                                                                                   | 2126                                                                                     | 2081                                                                          | 2137                |          |   |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 2101                                                                                                                               | 2101                                                                                                                 | 2112                                                                                                   | 2126                                                                                     | 2080                                                                          | 2128                | 22.1     | 0 |                     |          |  |  |
| 5                    | QPSK       | 25      | 12        | 2093                                                                                                                               | 2094                                                                                                                 | 2103                                                                                                   | 2136                                                                                     | 2070                                                                          | 2142                |          |   |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 2091                                                                                                                               | 2105                                                                                                                 | 2116                                                                                                   | 2123                                                                                     | 2087                                                                          | 2137                | 22.1     | 0 |                     |          |  |  |
| 5                    | 16QAM      | 1       | 24        | 2101                                                                                                                               | 2097                                                                                                                 | 2118                                                                                                   | 2123                                                                                     | 2083                                                                          | 2141                |          |   |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 2093                                                                                                                               | 2105                                                                                                                 | 2117                                                                                                   | 2127                                                                                     | 2083                                                                          | 2125                | 22.1     | 0 |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 2081                                                                                                                               | 2106                                                                                                                 | 2107                                                                                                   | 2126                                                                                     | 2083                                                                          | 2133                |          |   |                     |          |  |  |
| 5                    | 16QAM      | 12      | 13        | 2095                                                                                                                               | 2108                                                                                                                 | 2110                                                                                                   | 2125                                                                                     | 2079                                                                          | 2127                | 22.1     | 0 |                     |          |  |  |
| 5                    | 16QAM      | 25      | 0         | 2080                                                                                                                               | 2106                                                                                                                 | 2107                                                                                                   | 2127                                                                                     | 2083                                                                          | 2132                |          |   |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 2089                                                                                                                               | 2104                                                                                                                 | 2113                                                                                                   | 2121                                                                                     | 2075                                                                          | 2124                | 22.1     | 0 |                     |          |  |  |
| 5                    | 64QAM      | 1       | 24        | 2094                                                                                                                               | 2109                                                                                                                 | 2118                                                                                                   | 2124                                                                                     | 2080                                                                          | 2130                |          |   |                     |          |  |  |
| 5                    | 64QAM      | 1       | 24        | 2090                                                                                                                               | 2110                                                                                                                 | 2118                                                                                                   | 2129                                                                                     | 2086                                                                          | 2132                | 22.1     | 0 |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 2085                                                                                                                               | 2106                                                                                                                 | 2114                                                                                                   | 2121                                                                                     | 2093                                                                          | 2139                |          |   |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 2086                                                                                                                               | 2101                                                                                                                 | 2099                                                                                                   | 2113                                                                                     | 2083                                                                          | 2126                | 22.1     | 0 |                     |          |  |  |
| 5                    | 64QAM      | 12      | 13        | 2097                                                                                                                               | 2105                                                                                                                 | 2114                                                                                                   | 2124                                                                                     | 2084                                                                          | 2127                |          |   |                     |          |  |  |
| 5                    | 256QAM     | 1       | 0         | 2082                                                                                                                               | 2114                                                                                                                 | 2127                                                                                                   | 2133                                                                                     | 2075                                                                          | 2125                | 22.1     | 0 |                     |          |  |  |
| 5                    | 256QAM     | 1       | 0         | 2079                                                                                                                               | 2104                                                                                                                 | 2102                                                                                                   | 2129                                                                                     | 2086                                                                          | 2124                |          |   |                     |          |  |  |
| 5                    | 256QAM     | 1       | 12        | 2092                                                                                                                               | 2110                                                                                                                 | 2098                                                                                                   | 2125                                                                                     | 2079                                                                          | 2129                | 22.1     | 0 |                     |          |  |  |
| 5                    | 256QAM     | 1       | 24        | 2086                                                                                                                               | 2105                                                                                                                 | 2106                                                                                                   | 2122                                                                                     | 2081                                                                          | 2125                |          |   |                     |          |  |  |
| 5                    | 256QAM     | 12      | 0         | 2090                                                                                                                               | 2115                                                                                                                 | 2114                                                                                                   | 2122                                                                                     | 2071                                                                          | 2142                | 22.1     | 0 |                     |          |  |  |
| 5                    | 256QAM     | 12      | 7         | 2091                                                                                                                               | 2087                                                                                                                 | 2110                                                                                                   | 2129                                                                                     | 2080                                                                          | 2127                |          |   |                     |          |  |  |
| 5                    | 256QAM     | 25      | 0         | 2087                                                                                                                               | 2105                                                                                                                 | 2105                                                                                                   | 2121                                                                                     | 2085                                                                          | 2132                | 22.1     | 0 |                     |          |  |  |

| Band 41_Ant 2   |            |         |           |                           |                     |                         |                          |                      |                      |                    |          |    |   |
|-----------------|------------|---------|-----------|---------------------------|---------------------|-------------------------|--------------------------|----------------------|----------------------|--------------------|----------|----|---|
| BW (MHz)        | Modulation | RB Size | RB Offset | Fd IC Power Low Ch / Freq | Power Low Ch / Freq | Power Low Mid Ch / Freq | Power Low High Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-on Time (dBm) | MPR (dB) |    |   |
| Channel         |            |         |           |                           |                     |                         |                          |                      |                      |                    |          |    |   |
| Frequency (MHz) |            |         |           | 39750                     | 39750               | 40560                   | 40560                    | 41050                | 41050                |                    |          |    |   |
| 20              | QPSK       | 1       | 0         | 23.02                     | 23.06               | 23.22                   | 23.35                    | 23.03                | 23.13                |                    |          |    |   |
| 20              | QPSK       | 1       | 49        | 23.10                     | 23.08               | 23.23                   | 23.33                    | 23.12                | 23.38                |                    |          | 24 | 0 |
| 20              | QPSK       | 1       | 99        | 23.08                     | 23.11               | 23.24                   | 23.37                    | 23.07                | 23.33                |                    |          |    |   |
| 20              | QPSK       | 50      | 0         | 23.21                     | 23.15               | 23.43                   | 23.49                    | 23.12                | 23.34                |                    |          |    |   |
| 20              | QPSK       | 50      | 24        | 23.18                     | 23.11               | 23.43                   | 23.45                    | 23.07                | 23.24                |                    |          | 24 | 0 |
| 20              | QPSK       | 50      | 50        | 23.08                     | 23.12               | 23.31                   | 23.48                    | 23.02                | 23.30                |                    |          |    |   |
| 20              | QPSK       | 100     | 0         | 23.15                     | 23.23               | 23.40                   | 23.47                    | 23.05                | 23.32                |                    |          |    |   |
| 20              | 16QAM      | 1       | 0         | 23.30                     | 23.03               | 23.33                   | 23.51                    | 23.15                | 23.35                |                    |          |    |   |
| 20              | 16QAM      | 1       | 49        | 23.16                     | 23.06               | 23.34                   | 23.45                    | 23.07                | 23.28                |                    |          | 24 | 0 |
| 20              | 16QAM      | 1       | 99        | 23.12                     | 23.12               | 23.43                   | 23.45                    | 22.99                | 23.30                |                    |          |    |   |
| 20              | 16QAM      | 50      | 0         | 23.11                     | 23.07               | 23.31                   | 23.47                    | 23.07                | 23.25                |                    |          |    |   |
| 20              | 16QAM      | 50      | 24        | 22.27                     | 22.21               | 22.46                   | 22.52                    | 22.15                | 22.42                |                    |          | 23 | 1 |
| 20              | 16QAM      | 50      | 50        | 22.24                     | 22.23               | 22.46                   | 22.52                    | 22.07                | 22.48                |                    |          |    |   |
| 20              | 16QAM      | 100     | 0         | 22.23                     | 22.23               | 22.43                   | 22.51                    | 22.02                | 22.36                |                    |          |    |   |
| 20              | 16QAM      | 1       | 0         | 21.97                     | 21.98               | 22.12                   | 22.31                    | 22.02                | 22.15                |                    |          |    |   |
| 20              | 16QAM      | 1       | 49        | 22.08                     | 22.01               | 22.22                   | 22.45                    | 21.93                | 22.21                |                    |          |    |   |
| 20              | 16QAM      | 1       | 99        | 22.07                     | 22.14               | 22.29                   | 22.43                    | 21.98                | 22.48                |                    |          |    |   |
| 20              | 16QAM      | 50      | 0         | 21.13                     | 21.09               | 21.33                   | 21.46                    | 21.11                | 21.25                |                    |          | 22 | 2 |
| 20              | 16QAM      | 50      | 24        | 21.24                     | 21.24               | 21.45                   | 21.53                    | 21.14                | 21.41                |                    |          |    |   |
| 20              | 16QAM      | 50      | 50        | 21.19                     | 21.19               | 21.48                   | 21.54                    | 21.07                | 21.44                |                    |          |    |   |
| 20              | 16QAM      | 100     | 0         | 21.20                     | 21.20               | 21.43                   | 21.53                    | 21.14                | 21.42                |                    |          |    |   |
| 20              | 256QAM     | 1       | 0         | 18.76                     | 18.74               | 18.90                   | 19.21                    | 18.82                | 18.96                |                    |          | 20 | 4 |
| 20              | 256QAM     | 1       | 49        | 18.79                     | 18.88               | 18.84                   | 19.01                    | 18.78                | 18.80                |                    |          |    |   |
| 20              | 256QAM     | 1       | 99        | 18.71                     | 18.79               | 18.75                   | 19.01                    | 18.82                | 18.95                |                    |          |    |   |
| 20              | 256QAM     | 50      | 0         | 18.67                     | 18.68               | 18.64                   | 18.69                    | 18.65                | 18.87                |                    |          |    |   |
| 20              | 256QAM     | 50      | 24        | 18.63                     | 18.64               | 18.61                   | 19.09                    | 18.77                | 18.76                |                    |          | 20 | 4 |
| 20              | 256QAM     | 50      | 50        | 18.68                     | 18.57               | 18.54                   | 19.15                    | 18.80                | 18.85                |                    |          |    |   |
| 20              | 256QAM     | 100     | 0         | 18.78                     | 18.68               | 18.60                   | 19.06                    | 18.62                | 18.82                |                    |          |    |   |
| Channel         |            |         |           |                           |                     |                         |                          |                      |                      |                    |          |    |   |
| Frequency (MHz) |            |         |           | 39757.5                   | 39757.5             | 40567.5                 | 40567.5                  | 41058.5              | 41058.5              | Turn-on Time (dBm) | MPR (dB) |    |   |
| 15              | QPSK       | 1       | 0         | 22.62                     | 22.87               | 23.03                   | 23.32                    | 23.00                | 23.00                |                    |          |    |   |
| 15              | QPSK       | 1       | 37        | 22.95                     | 22.94               | 23.25                   | 23.34                    | 22.99                | 23.33                |                    |          | 24 | 0 |
| 15              | QPSK       | 1       | 74        | 23.07                     | 2299                | 2314                    | 2338                     | 2292                 | 2338                 |                    |          |    |   |
| 15              | QPSK       | 36      | 0         | 23.06                     | 23.12               | 23.41                   | 23.40                    | 23.34                | 23.38                |                    |          |    |   |
| 15              | QPSK       | 36      | 36        | 23.05                     | 23.07               | 23.30                   | 23.30                    | 23.06                | 23.20                |                    |          | 24 | 0 |
| 15              | QPSK       | 36      | 36        | 22.95                     | 23.00               | 23.14                   | 23.38                    | 22.94                | 23.32                |                    |          |    |   |
| 15              | QPSK       | 75      | 0         | 23.03                     | 23.08               | 23.31                   | 23.35                    | 23.33                | 23.24                |                    |          |    |   |
| 15              | 16QAM      | 1       | 0         | 21.28                     | 21.27               | 21.45                   | 21.52                    | 21.33                | 21.42                |                    |          |    |   |
| 15              | 16QAM      | 1       | 37        | 22.99                     | 2287                | 2330                    | 2340                     | 22.96                | 2338                 |                    |          | 24 | 0 |
| 15              | 16QAM      | 1       | 74        | 2300                      | 2301                | 2338                    | 2331                     | 2286                 | 2337                 |                    |          |    |   |
| 15              | 16QAM      | 36      | 0         | 21.95                     | 21.95               | 22.13                   | 22.29                    | 22.01                | 22.18                |                    |          |    |   |
| 15              | 16QAM      | 36      | 36        | 22.16                     | 22.16               | 22.27                   | 22.33                    | 22.05                | 22.31                |                    |          | 23 | 1 |
| 15              | 16QAM      | 36      | 36        | 22.13                     | 22.05               | 22.42                   | 22.32                    | 22.00                | 22.37                |                    |          |    |   |
| 15              | 16QAM      | 75      | 0         | 22.19                     | 22.13               | 22.26                   | 22.34                    | 21.97                | 22.24                |                    |          |    |   |
| 15              | 16QAM      | 1       | 0         | 21.50                     | 21.80               | 22.01                   | 22.26                    | 21.86                | 22.02                |                    |          |    |   |
| 15              | 16QAM      | 1       | 37        | 22.06                     | 21.95               | 22.06                   | 22.27                    | 21.83                | 22.17                |                    |          | 23 | 1 |
| 15              | 16QAM      | 1       | 74        | 21.91                     | 2211                | 2219                    | 2233                     | 2179                 | 2232                 |                    |          |    |   |
| 15              | 16QAM      | 36      | 0         | 21.03                     | 20.98               | 21.15                   | 21.35                    | 20.98                | 21.35                |                    |          | 22 | 2 |
| 15              | 16QAM      | 36      | 36        | 21.08                     | 21.14               | 21.37                   | 21.46                    | 21.11                | 21.28                |                    |          |    |   |
| 15              | 16QAM      | 36      | 36        | 20.99                     | 21.15               | 21.37                   | 21.45                    | 20.99                | 21.34                |                    |          |    |   |
| 15              | 16QAM      | 75      | 0         | 21.17                     | 21.19               | 21.33                   | 21.45                    | 21.03                | 21.28                |                    |          |    |   |
| 15              | 256QAM     | 1       | 0         | 18.63                     | 18.59               | 18.69                   | 19.07                    | 18.77                | 18.84                |                    |          |    |   |
| 15              | 256QAM     | 1       | 37        | 18.55                     | 18.41               | 18.44                   | 18.97                    | 18.66                | 18.69                |                    |          | 20 | 4 |
| 15              | 256QAM     | 1       | 74        | 18.53                     | 18.56               | 18.53                   | 18.66                    | 18.68                | 18.83                |                    |          |    |   |
| 15              | 256QAM     | 36      | 0         | 18.68                     | 18.69               | 18.69                   | 18.64                    | 18.64                | 18.72                |                    |          |    |   |
| 15              | 256QAM     | 36      | 36        | 18.59                     | 18.62               | 18.45                   | 18.92                    | 18.64                | 18.59                |                    |          |    |   |
| 15              | 256QAM     | 36      | 36        | 18.55                     | 18.55               | 18.53                   | 19.01                    | 18.70                | 18.66                |                    |          |    |   |
| 15              | 256QAM     | 75      | 0         | 18.58                     | 18.63               | 18.58                   | 18.93                    | 18.45                | 18.74                |                    |          | 20 | 4 |
| Channel         |            |         |           |                           |                     |                         |                          |                      |                      |                    |          |    |   |
| Frequency (MHz) |            |         |           | 39740                     | 39740               | 40160                   | 40620                    | 41080                | 41540                | Turn-on Time (dBm) | MPR (dB) |    |   |
| 10              | QPSK       | 1       | 0         | 22.97                     | 23.05               | 23.15                   | 23.15                    | 2287                 | 23.24                |                    |          |    |   |
| 10              | QPSK       | 1       | 25        | 23.08                     | 23.01               | 23.30                   | 23.33                    | 2293                 | 23.30                |                    |          | 24 | 0 |
| 10              | QPSK       | 1       | 49        | 23.05                     | 2298                | 2321                    | 2336                     | 2289                 | 23.32                |                    |          |    |   |
| 10              | QPSK       | 25      | 0         | 23.08                     | 23.17               | 2342                    | 2338                     | 23.05                | 23.33                |                    |          |    |   |
| 10              | QPSK       | 25      | 12        | 2310                      | 2310                | 2330                    | 2336                     | 2291                 | 23.22                |                    |          |    |   |
| 10              | QPSK       | 25      | 25        | 2298                      | 2307                | 2328                    | 2338                     | 2298                 | 23.25                |                    |          |    |   |
| 10              | QPSK       | 50      | 0         | 2312                      | 2304                | 2333                    | 2339                     | 2298                 | 23.22                |                    |          |    |   |
| 10              | QPSK       | 50      | 24        | 2297                      | 2298                | 2335                    | 2339                     | 2293                 | 23.22                |                    |          |    |   |
| 10              | 16QAM      | 1       | 0         | 23.12                     | 23.05               | 23.30                   | 23.36                    | 2291                 | 23.22                |                    |          |    |   |
| 10              | 16QAM      | 1       | 25        | 2314                      | 2308                | 2331                    | 2342                     | 2294                 | 23.21                |                    |          | 24 | 0 |
| 10              | 16QAM      | 1       | 49        | 2292                      | 2307                | 2331                    | 2331                     | 2281                 | 23.21                |                    |          |    |   |
| 10              | 16QAM      | 1       | 99        | 2308                      | 2317                | 2342                    | 2338                     | 2293                 | 23.32                |                    |          |    |   |
| 10              | 16QAM      | 25      | 12        | 2313                      | 2307                | 2327                    | 2340                     | 2293                 | 23.26                |                    |          | 23 | 1 |
| 10              | 16QAM      | 25      | 25        | 2297                      | 2303                | 2324                    | 2331                     | 2283                 | 23.23                |                    |          |    |   |
| 10              | 16QAM      | 50      | 0         | 23.15                     | 23.07               | 23.25                   | 23.35                    | 2299                 | 23.31                |                    |          |    |   |
| 10              | 16QAM      | 50      | 24        | 2296                      | 2303                | 2327                    | 2331                     | 2287                 | 23.22                |                    |          |    |   |
| 10              | 16QAM      | 1       | 0         | 22.97                     | 21.99               | 22.19                   | 22.30                    | 2144                 | 22.19                |                    |          |    |   |
| 10              | 16QAM      | 1       | 49        | 2199                      | 2200                | 2224                    | 2239                     | 2197                 | 22.24                |                    |          |    |   |
| 10              | 16QAM      | 1       | 99        | 2197                      | 2199                | 2221                    | 2239                     | 2197                 | 22.24                |                    |          |    |   |
| 10              | 16QAM      | 25      | 12        | 2121                      | 2121                | 2141                    | 2150                     | 2098                 | 21.24                |                    |          | 22 | 2 |
| 10              | 16QAM      | 25      | 25        | 2102                      | 2113                | 2138                    | 2144                     | 2106                 | 21.40                |                    |          |    |   |
| 10              | 16QAM      | 50      | 0         | 2104                      | 2104                | 2141                    | 2152                     | 2096                 | 21.33                |                    |          |    |   |
| 10              | 256QAM     | 1       | 0         | 18.69                     | 18.55               | 18.62                   | 19.15                    | 18.76                | 18.82                |                    |          | 20 | 4 |
| 10              | 256QAM     | 1       | 25        | 18.52                     | 18.55               | 18.60                   | 19.03                    | 18.69                | 18.79                |                    |          |    |   |
| 10              | 256QAM     | 1       | 49        | 18.54                     | 18.46               | 18.44                   | 18.81                    | 18.59                | 18.84                |                    |          |    |   |
| 10              | 256QAM     | 25      | 0         | 18.62                     | 18.50               | 18.60                   | 18.94                    | 18.63                | 18.82                |                    |          |    |   |
| 10              | 256QAM     | 25      | 12        | 18.52                     | 18.47               | 18.35                   | 18.96                    | 18.69                | 18.70                |                    |          | 20 | 4 |
| 10              | 256QAM     | 25      | 25        | 18.53                     | 18.39               | 18.39                   | 19.05                    | 18.68                | 18.79                |                    |          |    |   |
| 10              | 256QAM     | 50      | 0         | 18.67                     | 18.59               | 18.41                   | 18.64                    | 18.60                | 18.70                |                    |          |    |   |
| Channel         |            |         |           |                           |                     |                         |                          |                      |                      |                    |          |    |   |
| Frequency (MHz) |            |         |           | 39715                     | 39715               | 40161                   | 40620                    | 41093                | 41555                | Turn-on Time (dBm) | MPR (dB) |    |   |
| 5               | QPSK       | 1       | 0         | 22.87                     | 22.82               | 23.20                   | 23.31                    | 2292                 | 23.32                |                    |          |    |   |
| 5               | QPSK       | 1       | 12        | 2302                      | 2305                | 2331                    | 2349                     | 2293                 | 23.32                |                    |          | 24 | 0 |
| 5               | QPSK       | 1       | 24        | 2292                      | 2299                | 2320                    | 2327                     | 2289                 | 23.32                |                    |          |    |   |
| 5               | QPSK       | 12      | 0         | 23.13                     | 23.05               | 23.26                   | 23.41                    | 23.07                | 23.38                |                    |          |    |   |
| 5               | QPSK       | 12      | 7         | 2310                      | 2309                | 2337                    | 2332                     | 2292                 | 23.08                |                    |          |    |   |
| 5               | QPSK       | 12      | 13        | 2297                      | 2298                | 2323                    | 2330                     | 2286                 | 23.18                |                    |          | 24 | 0 |
| 5               | QPSK       | 25      | 0         | 2317                      | 2330                | 2330                    | 2327                     | 2308                 | 23.14                |                    |          |    |   |
| 5               | 16QAM      | 1       | 0         | 22.81                     | 23.01               | 23.18                   | 23.45                    | 23.09                | 23.31                |                    |          |    |   |
| 5               | 16QAM      | 1       | 12        | 2303                      | 22.88               | 23.22                   | 23.37                    | 2292                 | 23.18                |                    |          |    |   |
| 5               | 16QAM      | 1       | 24        | 2295                      | 2301                | 2341                    | 2339                     | 2283                 | 23.15                |                    |          | 24 | 0 |
| 5               | 16QAM      | 12      | 0         | 22.02                     | 21.87               | 22.11                   | 22.40                    | 2199                 | 22.13                |                    |          |    |   |
| 5               | 16QAM      | 12      | 7         | 2213                      | 2209                | 2244                    | 2250                     | 2213                 | 22.32                |                    |          | 23 | 1 |
| 5               | 16QAM      | 12      | 13        | 2218                      | 2206                | 2234                    | 2244                     | 2188                 | 22.40                |                    |          |    |   |
| 5               | 16QAM      | 25      | 0         | 2211                      | 2207                | 2326                    | 2327                     | 2303                 | 22.18                |                    |          |    |   |
| 5               | 16QAM      | 1       | 0         | 21.84                     | 21.95               | 22.09                   | 22.27                    | 2194                 | 22.11                |                    |          |    |   |
| 5               | 16QAM      | 1       | 12        | 2192                      | 2190                | 2210                    | 2225                     | 2183                 | 22.12                |                    |          | 23 | 1 |
| 5               | 16QAM      | 1       | 24        | 2195                      | 2194                | 2228                    | 2230                     | 2191                 | 22.39                |                    |          |    |   |
| 5               | 16QAM      | 12      | 0         | 21.00                     | 20.99               | 21.16                   | 21.35                    | 2093                 | 21.24                |                    |          |    |   |
| 5               | 16QAM      | 12      | 7         | 21.09                     | 21.13               | 21.37                   | 21.34                    | 2099                 | 21.38                |                    |          | 22 | 2 |
| 5               | 16QAM      | 12      | 13        | 2101                      | 2109                | 2145                    | 2145                     | 2105                 | 21.39                |                    |          |    |   |
| 5               | 16QAM      | 25      | 0         | 2115                      | 2107                | 2124                    | 2136                     | 2107                 | 21.31                |                    |          |    |   |
| 5               | 256QAM     | 1       | 0         | 18.63                     | 1                   |                         |                          |                      |                      |                    |          |    |   |



| Band 41 (HPUE)_Ant 6 |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                     |          |  |     |
|----------------------|------------|---------|-----------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------|--|-----|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Turn-up limit (dBm) | MPR (dB) |  |     |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                     |          |  |     |
| Frequency (MHz)      |            |         |           | 39750               | 39750                | 40185               | 40620                | 41055               | 41490                |                     |                      |                     |          |  |     |
| Frequency (MHz)      |            |         |           | 2510                | 2506                 | 2549.5              | 2553                 | 2635.5              | 2650                 |                     |                      |                     |          |  |     |
| 20                   | QPSK       | 1       | 0         | 24.15               | 24.07                | 24.01               | 24.22                | 24.11               | 24.18                | 25                  |                      |                     |          |  | 0   |
| 20                   | QPSK       | 1       | 49        | 23.15               | 23.11                | 23.11               | 23.35                | 23.11               | 23.25                |                     |                      |                     |          |  |     |
| 20                   | QPSK       | 1       | 99        | 24.14               | 24.02                | 24.09               | 24.32                | 24.02               | 24.14                |                     |                      |                     |          |  |     |
| 20                   | QPSK       | 50      | 0         | 23.41               | 23.43                | 23.43               | 23.60                | 23.52               | 23.55                |                     |                      |                     |          |  |     |
| 20                   | QPSK       | 50      | 24        | 23.38               | 23.32                | 23.47               | 23.61                | 23.50               | 23.62                | 25                  |                      |                     |          |  | 0.1 |
| 20                   | QPSK       | 50      | 50        | 23.40               | 23.46                | 23.42               | 23.57                | 23.44               | 23.49                |                     |                      |                     |          |  |     |
| 20                   | QPSK       | 100     | 0         | 23.43               | 23.42                | 23.54               | 23.59                | 23.50               | 23.51                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 1       | 0         | 23.56               | 23.48                | 23.47               | 23.67                | 23.46               | 23.61                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 1       | 49        | 23.63               | 23.54                | 23.58               | 23.73                | 23.54               | 23.67                | 25                  |                      |                     |          |  | 0.1 |
| 20                   | 16QAM      | 1       | 99        | 23.54               | 23.44                | 23.52               | 23.79                | 23.42               | 23.58                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 50      | 0         | 22.87               | 22.83                | 22.80               | 22.85                | 22.87               | 22.88                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 50      | 24        | 22.87               | 22.83                | 22.80               | 22.85                | 22.87               | 22.88                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 50      | 50        | 21.63               | 21.58                | 21.63               | 21.67                | 21.56               | 21.47                | 24                  |                      |                     |          |  | 1.1 |
| 20                   | 16QAM      | 50      | 24        | 21.65               | 21.68                | 21.78               | 21.83                | 21.67               | 21.84                |                     |                      |                     |          |  |     |
| 20                   | 16QAM      | 100     | 0         | 21.66               | 21.60                | 21.59               | 21.82                | 21.63               | 21.68                |                     |                      |                     |          |  |     |
| 20                   | 64QAM      | 1       | 0         | 22.61               | 22.61                | 22.60               | 22.87                | 22.61               | 22.61                |                     |                      |                     |          |  |     |
| 20                   | 64QAM      | 1       | 49        | 22.79               | 22.86                | 22.76               | 22.77                | 22.86               | 22.79                | 24                  |                      |                     |          |  | 1.1 |
| 20                   | 64QAM      | 1       | 99        | 22.57               | 22.43                | 22.62               | 23.04                | 22.59               | 22.73                |                     |                      |                     |          |  |     |
| 20                   | 64QAM      | 50      | 0         | 21.63               | 21.58                | 21.63               | 21.67                | 21.56               | 21.47                |                     |                      |                     |          |  |     |
| 20                   | 64QAM      | 50      | 24        | 21.70               | 21.55                | 21.85               | 21.83                | 21.47               | 21.71                |                     |                      |                     |          |  |     |
| 20                   | 64QAM      | 50      | 50        | 21.87               | 21.87                | 21.78               | 21.83                | 21.87               | 21.84                | 23                  |                      |                     |          |  | 2.1 |
| 20                   | 64QAM      | 100     | 0         | 21.66               | 21.60                | 21.59               | 21.82                | 21.63               | 21.68                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 1       | 0         | 19.23               | 19.20                | 19.24               | 19.42                | 19.30               | 19.31                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 1       | 49        | 19.29               | 19.22                | 19.31               | 19.49                | 19.40               | 19.40                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 1       | 99        | 19.24               | 19.29                | 19.34               | 19.43                | 19.39               | 19.37                | 21                  |                      |                     |          |  | 4.1 |
| 20                   | 256QAM     | 50      | 0         | 19.30               | 19.26                | 19.25               | 19.48                | 19.35               | 19.41                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 50      | 24        | 19.32               | 19.23                | 19.33               | 19.46                | 19.31               | 19.41                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 50      | 50        | 19.35               | 19.22                | 19.34               | 19.46                | 19.32               | 19.37                |                     |                      |                     |          |  |     |
| 20                   | 256QAM     | 100     | 0         | 19.29               | 19.27                | 19.33               | 19.52                | 19.40               | 19.38                |                     |                      |                     |          |  |     |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                     |          |  |     |
| Frequency (MHz)      |            |         |           | 39675               | 39725                | 40183               | 40820                | 41068               | 41515                |                     |                      |                     |          |  |     |
| 15                   | QPSK       | 1       | 0         | 24.14               | 24.04                | 23.90               | 24.18                | 24.03               | 24.03                | 25                  |                      |                     |          |  | 0   |
| 15                   | QPSK       | 1       | 37        | 24.12               | 24.06                | 24.09               | 24.23                | 24.01               | 24.18                |                     |                      |                     |          |  |     |
| 15                   | QPSK       | 1       | 74        | 24.06               | 23.90                | 24.05               | 24.30                | 23.98               | 24.05                |                     |                      |                     |          |  |     |
| 15                   | QPSK       | 36      | 0         | 23.26               | 23.35                | 23.47               | 23.56                | 23.51               | 23.51                |                     |                      |                     |          |  |     |
| 15                   | QPSK       | 36      | 20        | 23.23               | 23.27                | 23.34               | 23.36                | 23.40               | 23.37                | 25                  |                      |                     |          |  | 0.1 |
| 15                   | QPSK       | 36      | 39        | 23.27               | 23.38                | 23.32               | 23.50                | 23.31               | 23.39                |                     |                      |                     |          |  |     |
| 15                   | QPSK       | 75      | 0         | 23.34               | 23.36                | 23.45               | 23.44                | 23.37               | 23.45                |                     |                      |                     |          |  |     |
| 15                   | 16QAM      | 1       | 0         | 23.56               | 23.46                | 23.50               | 23.57                | 23.49               | 23.53                |                     |                      |                     |          |  |     |
| 15                   | 16QAM      | 1       | 37        | 23.51               | 23.56                | 23.56               | 23.75                | 23.57               | 23.65                | 25                  |                      |                     |          |  | 0.1 |
| 15                   | 16QAM      | 1       | 74        | 23.52               | 23.38                | 23.50               | 23.77                | 23.46               | 23.49                |                     |                      |                     |          |  |     |
| 15                   | 16QAM      | 36      | 0         | 22.85               | 22.80                | 22.87               | 22.82                | 22.45               | 22.30                |                     |                      |                     |          |  |     |
| 15                   | 16QAM      | 36      | 20        | 22.81               | 22.83                | 22.72               | 22.85                | 22.82               | 22.81                |                     |                      |                     |          |  |     |
| 15                   | 16QAM      | 36      | 39        | 22.50               | 22.63                | 22.65               | 22.65                | 22.59               | 22.60                | 24                  |                      |                     |          |  | 1.1 |
| 15                   | 16QAM      | 75      | 0         | 22.47               | 22.47                | 22.53               | 22.47                | 22.57               | 22.51                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 1       | 0         | 22.58               | 22.52                | 22.51               | 22.79                | 22.46               | 22.57                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 1       | 37        | 22.73               | 22.77                | 22.70               | 22.73                | 22.80               | 22.76                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 1       | 74        | 22.48               | 22.31                | 22.53               | 22.83                | 22.52               | 22.62                | 24                  |                      |                     |          |  | 1.1 |
| 15                   | 64QAM      | 36      | 0         | 21.56               | 21.48                | 21.52               | 21.57                | 21.47               | 21.42                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 36      | 20        | 21.60               | 21.43                | 21.75               | 21.58                | 21.43               | 21.65                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 36      | 39        | 21.45               | 21.48                | 21.67               | 21.52                | 21.56               | 21.58                |                     |                      |                     |          |  |     |
| 15                   | 64QAM      | 75      | 0         | 21.80               | 21.54                | 21.48               | 21.41                | 21.56               | 21.57                | 23                  |                      |                     |          |  | 2.1 |
| 15                   | 256QAM     | 1       | 0         | 19.19               | 19.16                | 19.19               | 19.38                | 19.18               | 19.20                |                     |                      |                     |          |  |     |
| 15                   | 256QAM     | 1       | 37        | 19.22               | 19.10                | 19.23               | 19.42                | 19.33               | 19.35                |                     |                      |                     |          |  |     |
| 15                   | 256QAM     | 1       | 74        | 19.13               | 19.25                | 19.22               | 19.34                | 19.27               | 19.25                |                     |                      |                     |          |  |     |
| 15                   | 256QAM     | 36      | 0         | 19.20               | 19.22                | 19.19               | 19.41                | 19.28               | 19.38                | 21                  |                      |                     |          |  | 4.1 |
| 15                   | 256QAM     | 36      | 20        | 19.23               | 19.15                | 19.26               | 19.41                | 19.24               | 19.33                |                     |                      |                     |          |  |     |
| 15                   | 256QAM     | 36      | 39        | 19.22               | 19.14                | 19.25               | 19.36                | 19.24               | 19.28                |                     |                      |                     |          |  |     |
| 15                   | 256QAM     | 75      | 0         | 19.19               | 19.19                | 19.25               | 19.44                | 19.35               | 19.24                |                     |                      |                     |          |  |     |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                     |          |  |     |
| Frequency (MHz)      |            |         |           | 39670               | 39700                | 40160               | 40820                | 41080               | 41540                |                     |                      |                     |          |  |     |
| 10                   | QPSK       | 1       | 0         | 24.00               | 23.95                | 23.95               | 24.12                | 24.02               | 24.08                | 25                  |                      |                     |          |  | 0   |
| 10                   | QPSK       | 1       | 25        | 24.10               | 24.11                | 23.98               | 24.26                | 24.10               | 24.23                |                     |                      |                     |          |  |     |
| 10                   | QPSK       | 1       | 49        | 24.02               | 24.01                | 24.04               | 24.23                | 23.89               | 24.04                |                     |                      |                     |          |  |     |
| 10                   | QPSK       | 24      | 0         | 23.28               | 23.48                | 23.34               | 23.44                | 23.45               | 23.48                |                     |                      |                     |          |  |     |
| 10                   | QPSK       | 25      | 12        | 23.33               | 23.27                | 23.37               | 23.47                | 23.48               | 23.30                | 25                  |                      |                     |          |  | 0.1 |
| 10                   | QPSK       | 25      | 25        | 23.33               | 23.38                | 23.38               | 23.44                | 23.38               | 23.42                |                     |                      |                     |          |  |     |
| 10                   | QPSK       | 25      | 49        | 23.37               | 23.36                | 23.44               | 23.55                | 23.47               | 23.39                |                     |                      |                     |          |  |     |
| 10                   | 16QAM      | 1       | 0         | 23.64               | 23.45                | 23.41               | 23.69                | 23.52               | 23.58                |                     |                      |                     |          |  |     |
| 10                   | 16QAM      | 1       | 25        | 23.64               | 23.63                | 23.53               | 23.77                | 23.52               | 23.68                | 25                  |                      |                     |          |  | 0.1 |
| 10                   | 16QAM      | 1       | 49        | 23.50               | 23.38                | 23.51               | 23.78                | 23.46               | 23.63                |                     |                      |                     |          |  |     |
| 10                   | 16QAM      | 25      | 0         | 22.95               | 22.94                | 22.94               | 22.99                | 22.49               | 22.29                |                     |                      |                     |          |  |     |
| 10                   | 16QAM      | 25      | 12        | 22.95               | 22.99                | 22.87               | 22.94                | 22.43               | 22.85                |                     |                      |                     |          |  |     |
| 10                   | 16QAM      | 25      | 25        | 22.92               | 22.82                | 22.82               | 22.80                | 22.59               | 22.76                | 24                  |                      |                     |          |  | 1.1 |
| 10                   | 16QAM      | 50      | 0         | 22.95               | 22.90                | 22.85               | 22.94                | 22.88               | 22.45                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 1       | 0         | 22.96               | 22.95                | 22.95               | 22.97                | 22.93               | 22.93                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 1       | 25        | 22.68               | 22.76                | 22.65               | 22.82                | 22.78               | 22.35                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 1       | 49        | 22.93               | 22.34                | 22.50               | 22.99                | 22.82               | 22.88                | 24                  |                      |                     |          |  | 1.1 |
| 10                   | 64QAM      | 25      | 0         | 21.99               | 21.81                | 21.98               | 21.84                | 21.49               | 21.43                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 25      | 12        | 21.95               | 21.49                | 21.77               | 21.59                | 21.41               | 21.80                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 25      | 25        | 21.92               | 21.47                | 21.75               | 21.57                | 21.62               | 21.96                |                     |                      |                     |          |  |     |
| 10                   | 64QAM      | 50      | 0         | 21.83               | 21.83                | 21.51               | 21.49                | 21.57               | 21.69                | 23                  |                      |                     |          |  | 2.1 |
| 10                   | 256QAM     | 1       | 0         | 19.13               | 19.11                | 19.20               | 19.33                | 19.18               | 19.21                |                     |                      |                     |          |  |     |
| 10                   | 256QAM     | 1       | 25        | 19.26               | 19.13                | 19.26               | 19.44                | 19.33               | 19.32                |                     |                      |                     |          |  |     |
| 10                   | 256QAM     | 1       | 49        | 19.18               | 19.17                | 19.25               | 19.36                | 19.28               | 19.27                |                     |                      |                     |          |  |     |
| 10                   | 256QAM     | 25      | 0         | 19.25               | 19.23                | 19.20               | 19.40                | 19.23               | 19.33                | 21                  |                      |                     |          |  | 4.1 |
| 10                   | 256QAM     | 25      | 12        | 19.25               | 19.14                | 19.21               | 19.35                | 19.22               | 19.38                |                     |                      |                     |          |  |     |
| 10                   | 256QAM     | 25      | 25        | 19.14               | 19.13                | 19.20               | 19.33                | 19.21               | 19.23                |                     |                      |                     |          |  |     |
| 10                   | 256QAM     | 50      | 0         | 19.20               | 19.15                | 19.21               | 19.44                | 19.35               | 19.30                |                     |                      |                     |          |  |     |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                     |                      |                     |          |  |     |
| Frequency (MHz)      |            |         |           | 39672.5             | 39675                | 40148               | 40820                | 41040               | 41495                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 1       | 0         | 24.10               | 24.05                | 24.00               | 24.10                | 23.97               | 24.09                | 25                  |                      |                     |          |  | 0   |
| 5                    | QPSK       | 1       | 25        | 24.07               | 24.03                | 24.03               | 24.10                | 24.04               | 24.10                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 1       | 49        | 24.00               | 23.91                | 24.00               | 24.21                | 24.01               | 24.10                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 12      | 0         | 23.29               | 23.34                | 23.39               | 23.46                | 23.44               | 23.53                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 12      | 7         | 23.32               | 23.18                | 23.46               | 23.43                | 23.48               | 23.19                | 25                  |                      |                     |          |  | 0.1 |
| 5                    | QPSK       | 12      | 14        | 23.25               | 23.43                | 23.43               | 23.51                | 23.34               | 23.35                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 25      | 0         | 23.29               | 23.39                | 23.43               | 23.51                | 23.36               | 23.45                |                     |                      |                     |          |  |     |
| 5                    | QPSK       | 25      | 7         | 23.30               | 23.43                | 23.43               | 23.58                | 23.56               | 23.65                |                     |                      |                     |          |  |     |
| 5                    | 16QAM      | 1       | 0         | 23.57               | 23.57                | 23.47               | 23.78                | 23.59               | 23.60                | 25                  |                      |                     |          |  | 0.1 |
| 5                    | 16QAM      | 1       | 24        | 23.60               | 23.39                | 23.55               | 23.77                | 23.50               | 23.53                |                     |                      |                     |          |  |     |
| 5                    | 16QAM      | 12      | 0         | 22.81               | 22.49                | 22.50               | 22.62                | 22.46               | 22.32                |                     |                      |                     |          |  |     |
| 5                    | 16QAM      | 12      | 7         | 22.87               | 22.85                | 22.73               | 22.89                | 22.44               | 22.66                |                     |                      |                     |          |  |     |
| 5                    | 16QAM      | 12      | 14        | 22.97               | 22.80                | 22.89               | 22.84                | 22.65               | 22.70                | 24                  |                      |                     |          |  | 1.1 |
| 5                    | 16QAM      | 25      | 0         | 22.53               | 22.50                | 22.53               | 22.53                | 22.58               | 22.53                |                     |                      |                     |          |  |     |
| 5                    | 64QAM      | 1       | 0         | 22.53               | 22.49                | 22.57               | 22.77                | 22.47               | 22.55                |                     |                      |                     |          |  |     |
| 5                    | 64QAM      | 1       | 25        | 22.75               | 22.73                | 22.73               | 22.73                | 22.73               | 22.73                |                     |                      |                     |          |  |     |
| 5                    | 64QAM      | 1       | 24        | 22.51               | 22.52                | 22.54               | 22.91                | 22.48               | 22.87                | 23                  |                      |                     |          |  | 2.1 |
| 5                    | 64QAM      | 12      | 0         | 21.51               | 21.51                | 21.56               | 21.61                | 21.49               | 21.39                |                     |                      |                     |          |  |     |
| 5                    | 64QAM      | 12      | 7         | 21.62               | 21.45                | 21.82               | 21.87                | 21.39               | 21.67                |                     |                      |                     |          |  |     |
| 5                    | 64QAM      | 12      | 14        | 21.46               | 21.53                | 21.70               | 21.57                | 21.63               | 21.30                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 1       | 0         | 19.12               | 19.15                | 19.20               | 19.34                | 19.19               | 19.20                | 21                  |                      |                     |          |  | 4.1 |
| 5                    | 256QAM     | 1       | 25        | 19.25               | 19.16                | 19.24               | 19.43                | 19.28               | 19.33                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 1       | 49        | 19.20               | 19.21                | 19.28               | 19.34                | 19.28               | 19.25                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 12      | 0         | 19.18               | 19.18                | 19.16               | 19.44                | 19.27               | 19.34                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 12      | 7         | 19.29               | 19.14                | 19.24               | 19.37                | 19.27               | 19.30                | 21                  |                      |                     |          |  | 4.1 |
| 5                    | 256QAM     | 12      | 14        | 19.19               | 19.14                | 19.23               | 19.30                | 19.20               | 19.30                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 25      | 0         | 19.20               | 19.19                | 19.29               | 19.40                | 19.31               | 19.32                |                     |                      |                     |          |  |     |
| 5                    | 256QAM     | 25      | 7         | 19.20               | 19.19                | 19.29               | 19.40                | 19.31               | 19.32                |                     |                      |                     |          |  |     |

| Band 48_Ant 10  |            |         |           |                       |                           |                        |                        |                     |          |   |  |
|-----------------|------------|---------|-----------|-----------------------|---------------------------|------------------------|------------------------|---------------------|----------|---|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Mid Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |   |  |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| 20              | QPSK       | 1       | 0         | 18.24                 | 18.31                     | 18.34                  | 18.38                  | 19.2                | 0        |   |  |
| 20              | QPSK       | 1       | 48        | 18.32                 | 18.45                     | 18.42                  | 18.41                  |                     |          |   |  |
| 20              | QPSK       | 1       | 96        | 18.27                 | 18.32                     | 18.40                  | 18.37                  |                     |          |   |  |
| 20              | QPSK       | 50      | 0         | 18.27                 | 18.41                     | 18.45                  | 18.35                  |                     |          |   |  |
| 20              | QPSK       | 50      | 24        | 18.20                 | 18.39                     | 18.30                  | 18.30                  | 19.2                | 0        |   |  |
| 20              | QPSK       | 50      | 50        | 18.22                 | 18.35                     | 18.38                  | 18.30                  |                     |          |   |  |
| 20              | QPSK       | 100     | 0         | 18.17                 | 18.40                     | 18.33                  | 18.36                  |                     |          |   |  |
| 20              | 16QAM      | 1       | 0         | 18.30                 | 18.31                     | 18.31                  | 18.31                  |                     |          |   |  |
| 20              | 16QAM      | 1       | 48        | 18.27                 | 18.37                     | 18.32                  | 18.39                  | 19.2                | 0        |   |  |
| 20              | 16QAM      | 1       | 96        | 18.31                 | 18.44                     | 18.43                  | 18.36                  |                     |          |   |  |
| 20              | 16QAM      | 50      | 0         | 18.18                 | 18.34                     | 18.39                  | 18.27                  |                     |          |   |  |
| 20              | 16QAM      | 50      | 24        | 18.25                 | 18.31                     | 18.44                  | 18.35                  |                     | 19.2     | 0 |  |
| 20              | 16QAM      | 50      | 50        | 18.20                 | 18.30                     | 18.38                  | 18.35                  |                     |          |   |  |
| 20              | 16QAM      | 100     | 0         | 18.21                 | 18.44                     | 18.34                  | 18.28                  |                     |          |   |  |
| 20              | 64QAM      | 1       | 0         | 18.24                 | 18.33                     | 18.44                  | 18.31                  | 19.2                | 0        |   |  |
| 20              | 64QAM      | 1       | 48        | 18.27                 | 18.39                     | 18.39                  | 18.32                  |                     |          |   |  |
| 20              | 64QAM      | 1       | 96        | 18.22                 | 18.37                     | 18.38                  | 18.33                  |                     |          |   |  |
| 20              | 64QAM      | 50      | 0         | 18.21                 | 18.35                     | 18.40                  | 18.28                  |                     |          |   |  |
| 20              | 64QAM      | 50      | 24        | 18.28                 | 18.36                     | 18.36                  | 18.38                  | 19.2                | 0        |   |  |
| 20              | 64QAM      | 50      | 50        | 18.20                 | 18.34                     | 18.42                  | 18.33                  |                     |          |   |  |
| 20              | 64QAM      | 100     | 0         | 18.23                 | 18.38                     | 18.41                  | 18.29                  |                     |          |   |  |
| 20              | 256QAM     | 1       | 0         | 18.24                 | 18.43                     | 18.30                  | 18.30                  |                     | 19.2     | 0 |  |
| 20              | 256QAM     | 1       | 48        | 18.24                 | 18.31                     | 18.44                  | 18.30                  |                     |          |   |  |
| 20              | 256QAM     | 1       | 96        | 18.21                 | 18.38                     | 18.37                  | 18.33                  |                     |          |   |  |
| 20              | 256QAM     | 50      | 0         | 18.22                 | 18.40                     | 18.36                  | 18.33                  |                     |          |   |  |
| 20              | 256QAM     | 50      | 24        | 18.29                 | 18.36                     | 18.36                  | 18.38                  | 19.2                | 0        |   |  |
| 20              | 256QAM     | 50      | 50        | 18.26                 | 18.36                     | 18.38                  | 18.38                  |                     |          |   |  |
| 20              | 256QAM     | 100     | 0         | 18.27                 | 18.33                     | 18.30                  | 18.32                  |                     |          |   |  |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| 35              | QPSK       | 1       | 0         | 18.18                 | 18.16                     | 18.28                  | 18.20                  | 19.2                | 0        |   |  |
| 15              | QPSK       | 1       | 37        | 18.20                 | 18.32                     | 18.34                  | 18.38                  |                     |          |   |  |
| 15              | QPSK       | 1       | 74        | 18.22                 | 18.19                     | 18.28                  | 18.30                  |                     |          |   |  |
| 15              | QPSK       | 36      | 0         | 18.14                 | 18.28                     | 18.31                  | 18.34                  |                     |          |   |  |
| 15              | QPSK       | 36      | 20        | 18.05                 | 18.37                     | 18.24                  | 18.22                  | 19.2                | 0        |   |  |
| 15              | QPSK       | 36      | 39        | 18.09                 | 18.32                     | 18.28                  | 18.23                  |                     |          |   |  |
| 15              | QPSK       | 75      | 0         | 18.05                 | 18.34                     | 18.25                  | 18.22                  |                     |          |   |  |
| 15              | 16QAM      | 1       | 0         | 18.21                 | 18.29                     | 18.17                  | 18.22                  |                     | 19.2     | 0 |  |
| 15              | 16QAM      | 1       | 37        | 18.18                 | 18.26                     | 18.20                  | 18.31                  |                     |          |   |  |
| 15              | 16QAM      | 1       | 74        | 18.27                 | 18.36                     | 18.38                  | 18.29                  |                     |          |   |  |
| 15              | 16QAM      | 36      | 0         | 18.06                 | 18.19                     | 18.27                  | 18.13                  |                     |          |   |  |
| 15              | 16QAM      | 36      | 20        | 18.12                 | 18.28                     | 18.33                  | 18.32                  | 19.2                | 0        |   |  |
| 15              | 16QAM      | 36      | 39        | 18.17                 | 18.15                     | 18.23                  | 18.27                  |                     |          |   |  |
| 15              | 16QAM      | 75      | 0         | 18.07                 | 18.30                     | 18.23                  | 18.16                  |                     |          |   |  |
| 15              | 64QAM      | 1       | 0         | 18.16                 | 18.28                     | 18.34                  | 18.25                  | 19.2                | 0        |   |  |
| 15              | 64QAM      | 1       | 37        | 18.16                 | 18.24                     | 18.27                  | 18.25                  |                     |          |   |  |
| 15              | 64QAM      | 1       | 74        | 18.18                 | 18.29                     | 18.34                  | 18.29                  |                     |          |   |  |
| 15              | 64QAM      | 36      | 0         | 18.17                 | 18.23                     | 18.34                  | 18.15                  |                     | 19.2     | 0 |  |
| 15              | 64QAM      | 36      | 20        | 18.24                 | 18.18                     | 18.27                  | 18.28                  |                     |          |   |  |
| 15              | 64QAM      | 36      | 39        | 18.09                 | 18.33                     | 18.39                  | 18.22                  |                     |          |   |  |
| 15              | 64QAM      | 75      | 0         | 18.13                 | 18.28                     | 18.33                  | 18.16                  | 19.2                | 0        |   |  |
| 15              | 256QAM     | 1       | 0         | 18.16                 | 18.41                     | 18.24                  | 18.27                  |                     |          |   |  |
| 15              | 256QAM     | 1       | 37        | 18.14                 | 18.24                     | 18.37                  | 18.39                  |                     |          |   |  |
| 15              | 256QAM     | 1       | 74        | 18.07                 | 18.32                     | 18.24                  | 18.31                  |                     |          |   |  |
| 15              | 256QAM     | 36      | 0         | 18.16                 | 18.36                     | 18.24                  | 18.24                  | 19.2                | 0        |   |  |
| 15              | 256QAM     | 36      | 20        | 18.28                 | 18.28                     | 18.23                  | 18.35                  |                     |          |   |  |
| 15              | 256QAM     | 36      | 39        | 18.25                 | 18.28                     | 18.25                  | 18.26                  |                     |          |   |  |
| 15              | 256QAM     | 75      | 0         | 18.25                 | 18.24                     | 18.23                  | 18.19                  |                     |          |   |  |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| 35              | QPSK       | 1       | 0         | 18.15                 | 18.16                     | 18.30                  | 18.23                  | 19.2                | 0        |   |  |
| 10              | QPSK       | 1       | 25        | 18.29                 | 18.39                     | 18.38                  | 18.37                  |                     |          |   |  |
| 10              | QPSK       | 1       | 49        | 18.19                 | 18.19                     | 18.37                  | 18.24                  |                     |          |   |  |
| 10              | QPSK       | 25      | 0         | 18.16                 | 18.27                     | 18.26                  | 18.26                  |                     | 19.2     | 0 |  |
| 10              | QPSK       | 25      | 12        | 18.19                 | 18.29                     | 18.16                  | 18.18                  |                     |          |   |  |
| 10              | QPSK       | 25      | 25        | 18.10                 | 18.32                     | 18.35                  | 18.18                  |                     |          |   |  |
| 10              | QPSK       | 50      | 0         | 18.05                 | 18.30                     | 18.22                  | 18.24                  | 19.2                | 0        |   |  |
| 10              | 16QAM      | 1       | 0         | 18.20                 | 18.30                     | 18.18                  | 18.22                  |                     |          |   |  |
| 10              | 16QAM      | 1       | 25        | 18.20                 | 18.26                     | 18.27                  | 18.24                  |                     |          |   |  |
| 10              | 16QAM      | 1       | 49        | 18.19                 | 18.29                     | 18.34                  | 18.31                  |                     | 19.2     | 0 |  |
| 10              | 16QAM      | 25      | 0         | 18.17                 | 18.26                     | 18.26                  | 18.15                  |                     |          |   |  |
| 10              | 16QAM      | 25      | 12        | 18.23                 | 18.21                     | 18.36                  | 18.24                  |                     |          |   |  |
| 10              | 16QAM      | 25      | 25        | 18.10                 | 18.24                     | 18.35                  | 18.21                  |                     |          |   |  |
| 10              | 16QAM      | 50      | 0         | 18.16                 | 18.36                     | 18.28                  | 18.16                  | 19.2                | 0        |   |  |
| 10              | 64QAM      | 1       | 0         | 18.21                 | 18.27                     | 18.42                  | 18.15                  |                     |          |   |  |
| 10              | 64QAM      | 1       | 25        | 18.16                 | 18.25                     | 18.37                  | 18.21                  |                     |          |   |  |
| 10              | 64QAM      | 1       | 49        | 18.20                 | 18.28                     | 18.34                  | 18.24                  |                     | 19.2     | 0 |  |
| 10              | 64QAM      | 25      | 0         | 18.19                 | 18.33                     | 18.34                  | 18.16                  |                     |          |   |  |
| 10              | 64QAM      | 25      | 12        | 18.16                 | 18.26                     | 18.32                  | 18.36                  |                     |          |   |  |
| 10              | 64QAM      | 25      | 25        | 18.19                 | 18.22                     | 18.31                  | 18.18                  |                     |          |   |  |
| 10              | 64QAM      | 50      | 0         | 18.08                 | 18.30                     | 18.33                  | 18.27                  | 19.2                | 0        |   |  |
| 10              | 256QAM     | 1       | 0         | 18.11                 | 18.28                     | 18.21                  | 18.25                  |                     |          |   |  |
| 10              | 256QAM     | 1       | 25        | 18.09                 | 18.28                     | 18.34                  | 18.37                  |                     |          |   |  |
| 10              | 256QAM     | 1       | 49        | 18.07                 | 18.30                     | 18.27                  | 18.18                  |                     |          |   |  |
| 10              | 256QAM     | 25      | 0         | 18.11                 | 18.29                     | 18.33                  | 18.25                  | 19.2                | 0        |   |  |
| 10              | 256QAM     | 25      | 12        | 18.23                 | 18.23                     | 18.31                  | 18.23                  |                     |          |   |  |
| 10              | 256QAM     | 25      | 25        | 18.21                 | 18.35                     | 18.29                  | 18.21                  |                     |          |   |  |
| 10              | 256QAM     | 50      | 0         | 18.15                 | 18.20                     | 18.25                  | 18.19                  |                     |          |   |  |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |   |  |
| 5               | QPSK       | 1       | 0         | 18.12                 | 18.27                     | 18.31                  | 18.37                  | 19.2                | 0        |   |  |
| 5               | QPSK       | 1       | 12        | 18.26                 | 18.41                     | 18.31                  | 18.39                  |                     |          |   |  |
| 5               | QPSK       | 1       | 24        | 18.17                 | 18.22                     | 18.30                  | 18.36                  |                     |          |   |  |
| 5               | QPSK       | 12      | 0         | 18.14                 | 18.31                     | 18.38                  | 18.28                  |                     | 19.2     | 0 |  |
| 5               | QPSK       | 12      | 7         | 18.06                 | 18.38                     | 18.20                  | 18.16                  |                     |          |   |  |
| 5               | QPSK       | 12      | 13        | 18.13                 | 18.26                     | 18.30                  | 18.21                  |                     |          |   |  |
| 5               | QPSK       | 25      | 0         | 18.15                 | 18.30                     | 18.28                  | 18.23                  | 19.2                | 0        |   |  |
| 5               | 16QAM      | 1       | 0         | 18.22                 | 18.22                     | 18.26                  | 18.19                  |                     |          |   |  |
| 5               | 16QAM      | 1       | 12        | 18.14                 | 18.36                     | 18.31                  | 18.28                  |                     |          |   |  |
| 5               | 16QAM      | 1       | 24        | 18.26                 | 18.36                     | 18.27                  | 18.27                  |                     | 19.2     | 0 |  |
| 5               | 16QAM      | 12      | 0         | 18.15                 | 18.25                     | 18.25                  | 18.14                  |                     |          |   |  |
| 5               | 16QAM      | 12      | 7         | 18.19                 | 18.21                     | 18.42                  | 18.32                  |                     |          |   |  |
| 5               | 16QAM      | 12      | 13        | 18.06                 | 18.24                     | 18.24                  | 18.30                  | 19.2                | 0        |   |  |
| 5               | 16QAM      | 25      | 0         | 18.09                 | 18.31                     | 18.23                  | 18.15                  |                     |          |   |  |
| 5               | 64QAM      | 1       | 0         | 18.16                 | 18.30                     | 18.29                  | 18.17                  |                     |          |   |  |
| 5               | 64QAM      | 1       | 12        | 18.24                 | 18.36                     | 18.30                  | 18.19                  |                     | 19.2     | 0 |  |
| 5               | 64QAM      | 1       | 24        | 18.16                 | 18.29                     | 18.34                  | 18.28                  |                     |          |   |  |
| 5               | 64QAM      | 12      | 0         | 18.09                 | 18.28                     | 18.35                  | 18.15                  |                     |          |   |  |
| 5               | 64QAM      | 12      | 7         | 18.17                 | 18.17                     | 18.30                  | 18.36                  | 19.2                | 0        |   |  |
| 5               | 64QAM      | 12      | 13        | 18.05                 | 18.19                     | 18.41                  | 18.30                  |                     |          |   |  |
| 5               | 64QAM      | 25      | 0         | 18.19                 | 18.33                     | 18.29                  | 18.17                  |                     |          |   |  |
| 5               | 256QAM     | 1       | 0         | 18.22                 | 18.31                     | 18.23                  | 18.17                  | 19.2                | 0        |   |  |
| 5               | 256QAM     | 1       | 12        | 18.17                 | 18.29                     | 18.43                  | 18.27                  |                     |          |   |  |
| 5               | 256QAM     | 1       | 24        | 18.11                 | 18.31                     | 18.29                  | 18.24                  |                     |          |   |  |
| 5               | 256QAM     | 12      | 0         | 18.16                 | 18.37                     | 18.13                  | 18.22                  |                     | 19.2     | 0 |  |
| 5               | 256QAM     | 12      | 7         | 18.21                 | 18.22                     | 18.24                  | 18.27                  |                     |          |   |  |
| 5               | 256QAM     | 12      | 13        | 18.19                 | 18.31                     | 18.23                  | 18.14                  |                     |          |   |  |
| 5               | 256QAM     | 25      | 0         | 18.22                 | 18.32                     | 18.15                  | 18.18                  |                     |          |   |  |

| Band 48_Ant 8   |            |         |           |                       |                           |                        |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------|------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Mid Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |
| 20              | QPSK       | 1       | 0         | 17.28                 | 17.27                     | 17.28                  | 17.21                  | 17.7                | 0        |
| 20              | QPSK       | 1       | 48        | 17.30                 | 17.32                     | 17.31                  | 17.33                  |                     |          |
| 20              | QPSK       | 1       | 96        | 17.30                 | 17.27                     | 17.25                  | 17.09                  |                     |          |
| 20              | QPSK       | 50      | 0         | 17.33                 | 17.25                     | 17.25                  | 17.10                  |                     |          |
| 20              | QPSK       | 50      | 24        | 17.28                 | 17.15                     | 17.21                  | 17.06                  |                     |          |
| 20              | QPSK       | 50      | 50        | 17.26                 | 17.23                     | 17.18                  | 17.09                  |                     |          |
| 20              | QPSK       | 100     | 0         | 17.33                 | 17.28                     | 17.23                  | 17.10                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.34                 | 17.18                     | 17.23                  | 17.17                  |                     |          |
| 20              | 16QAM      | 1       | 48        | 17.26                 | 17.20                     | 17.33                  | 17.14                  |                     |          |
| 20              | 16QAM      | 1       | 96        | 17.32                 | 17.27                     | 17.21                  | 17.10                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 17.36                 | 17.28                     | 17.19                  | 17.16                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 17.34                 | 17.17                     | 17.26                  | 17.11                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.30                 | 17.21                     | 17.31                  | 17.10                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 17.38                 | 17.25                     | 17.22                  | 17.18                  |                     |          |
| 20              | 8QAM       | 1       | 0         | 17.33                 | 17.15                     | 17.26                  | 17.16                  |                     |          |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |
| 20              | 8QAM       | 1       | 48        | 17.28                 | 17.27                     | 17.22                  | 17.21                  |                     |          |
| 20              | 8QAM       | 1       | 96        | 17.28                 | 17.18                     | 17.28                  | 17.21                  |                     |          |
| 20              | 8QAM       | 50      | 0         | 17.29                 | 17.28                     | 17.30                  | 17.22                  |                     |          |
| 20              | 8QAM       | 50      | 24        | 17.26                 | 17.20                     | 17.25                  | 17.17                  |                     |          |
| 20              | 8QAM       | 50      | 50        | 17.25                 | 17.15                     | 17.25                  | 17.13                  |                     |          |
| 20              | 8QAM       | 100     | 0         | 17.38                 | 17.25                     | 17.22                  | 17.18                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.27                 | 17.23                     | 17.30                  | 17.14                  |                     |          |
| 20              | 256QAM     | 1       | 48        | 17.35                 | 17.19                     | 17.29                  | 17.17                  |                     |          |
| 20              | 256QAM     | 1       | 96        | 17.28                 | 17.24                     | 17.33                  | 17.18                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.33                 | 17.28                     | 17.31                  | 17.13                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 17.35                 | 17.19                     | 17.28                  | 17.20                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.30                 | 17.28                     | 17.31                  | 17.13                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.33                 | 17.17                     | 17.31                  | 17.13                  |                     |          |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |
| 15              | QPSK       | 1       | 0         | 17.15                 | 17.25                     | 17.27                  | 17.17                  | 17.7                | 0        |
| 15              | QPSK       | 1       | 37        | 17.36                 | 17.29                     | 17.28                  | 17.20                  |                     |          |
| 15              | QPSK       | 1       | 74        | 17.33                 | 17.28                     | 17.25                  | 17.17                  |                     |          |
| 15              | QPSK       | 36      | 0         | 17.32                 | 17.25                     | 17.12                  | 17.09                  |                     |          |
| 15              | QPSK       | 36      | 20        | 17.27                 | 17.13                     | 17.11                  | 16.91                  |                     |          |
| 15              | QPSK       | 36      | 56        | 17.22                 | 17.06                     | 17.01                  | 16.87                  |                     |          |
| 15              | QPSK       | 75      | 0         | 17.26                 | 17.28                     | 17.15                  | 17.00                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.20                 | 17.09                     | 17.18                  | 17.11                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 17.17                 | 17.14                     | 17.23                  | 17.08                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.17                 | 17.06                     | 17.15                  | 17.06                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 17.35                 | 17.20                     | 17.10                  | 17.07                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 17.20                 | 17.07                     | 17.12                  | 16.98                  |                     |          |
| 15              | 16QAM      | 36      | 56        | 17.28                 | 17.06                     | 17.01                  | 16.89                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 17.28                 | 17.07                     | 17.09                  | 17.02                  |                     |          |
| 15              | 8QAM       | 1       | 0         | 17.19                 | 17.14                     | 17.17                  | 17.07                  |                     |          |
| 15              | 8QAM       | 1       | 37        | 17.13                 | 17.13                     | 17.06                  | 17.18                  |                     |          |
| 15              | 8QAM       | 1       | 74        | 17.22                 | 17.06                     | 17.11                  | 17.03                  |                     |          |
| 15              | 8QAM       | 36      | 0         | 17.17                 | 17.17                     | 17.27                  | 17.12                  |                     |          |
| 15              | 8QAM       | 36      | 20        | 17.12                 | 17.08                     | 17.13                  | 17.13                  |                     |          |
| 15              | 8QAM       | 36      | 56        | 17.21                 | 17.01                     | 17.26                  | 17.05                  |                     |          |
| 15              | 8QAM       | 75      | 0         | 17.27                 | 17.21                     | 17.10                  | 17.05                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 17.18                 | 17.20                     | 17.24                  | 16.99                  |                     |          |
| 15              | 256QAM     | 1       | 37        | 17.22                 | 17.11                     | 17.28                  | 17.16                  |                     |          |
| 15              | 256QAM     | 1       | 74        | 17.13                 | 17.18                     | 17.11                  | 17.01                  |                     |          |
| 15              | 256QAM     | 36      | 0         | 17.24                 | 17.18                     | 17.08                  | 17.01                  |                     |          |
| 15              | 256QAM     | 36      | 20        | 17.22                 | 17.10                     | 17.21                  | 17.15                  |                     |          |
| 15              | 256QAM     | 36      | 56        | 17.16                 | 17.20                     | 17.21                  | 17.03                  |                     |          |
| 15              | 256QAM     | 75      | 0         | 17.25                 | 17.14                     | 17.24                  | 17.08                  |                     |          |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |
| 15              | QPSK       | 1       | 0         | 17.21                 | 17.24                     | 17.15                  | 17.14                  | 17.7                | 0        |
| 15              | QPSK       | 1       | 25        | 17.29                 | 17.22                     | 17.31                  | 17.17                  |                     |          |
| 15              | QPSK       | 1       | 49        | 17.33                 | 17.18                     | 17.12                  | 17.05                  |                     |          |
| 15              | QPSK       | 25      | 0         | 17.20                 | 17.14                     | 17.21                  | 16.98                  |                     |          |
| 15              | QPSK       | 25      | 12        | 17.27                 | 17.06                     | 17.16                  | 17.02                  |                     |          |
| 15              | QPSK       | 25      | 37        | 17.10                 | 17.13                     | 17.13                  | 17.01                  |                     |          |
| 15              | QPSK       | 50      | 0         | 17.22                 | 17.18                     | 17.08                  | 17.05                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.22                 | 17.14                     | 17.08                  | 17.11                  |                     |          |
| 15              | 16QAM      | 1       | 25        | 17.14                 | 17.09                     | 17.13                  | 17.02                  |                     |          |
| 15              | 16QAM      | 1       | 49        | 17.23                 | 17.14                     | 17.15                  | 17.01                  |                     |          |
| 15              | 16QAM      | 25      | 0         | 17.23                 | 17.24                     | 17.12                  | 17.08                  |                     |          |
| 15              | 16QAM      | 25      | 12        | 17.28                 | 17.09                     | 17.21                  | 17.05                  |                     |          |
| 15              | 16QAM      | 25      | 37        | 17.16                 | 17.08                     | 17.12                  | 17.06                  |                     |          |
| 15              | 16QAM      | 50      | 0         | 17.14                 | 17.09                     | 17.16                  | 16.99                  |                     |          |
| 15              | 8QAM       | 1       | 0         | 17.18                 | 17.17                     | 17.18                  | 17.07                  |                     |          |
| 15              | 8QAM       | 1       | 25        | 17.17                 | 17.18                     | 17.19                  | 17.20                  |                     |          |
| 15              | 8QAM       | 1       | 49        | 17.21                 | 17.07                     | 17.10                  | 17.20                  |                     |          |
| 15              | 8QAM       | 25      | 0         | 17.18                 | 17.21                     | 17.19                  | 17.18                  |                     |          |
| 15              | 8QAM       | 25      | 12        | 17.27                 | 17.17                     | 17.25                  | 17.03                  |                     |          |
| 15              | 8QAM       | 25      | 37        | 17.10                 | 17.13                     | 17.13                  | 17.03                  |                     |          |
| 15              | 8QAM       | 50      | 0         | 17.33                 | 17.22                     | 17.15                  | 17.09                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 17.22                 | 17.15                     | 17.26                  | 17.13                  |                     |          |
| 15              | 256QAM     | 1       | 25        | 17.30                 | 17.14                     | 17.16                  | 17.14                  |                     |          |
| 15              | 256QAM     | 1       | 49        | 17.18                 | 17.17                     | 17.22                  | 17.16                  |                     |          |
| 15              | 256QAM     | 25      | 0         | 17.28                 | 17.17                     | 17.11                  | 17.08                  |                     |          |
| 15              | 256QAM     | 25      | 12        | 17.23                 | 17.17                     | 17.13                  | 17.06                  |                     |          |
| 15              | 256QAM     | 25      | 37        | 17.17                 | 17.11                     | 17.11                  | 17.01                  |                     |          |
| 15              | 256QAM     | 50      | 0         | 17.23                 | 17.13                     | 17.17                  | 17.03                  |                     |          |
| Channel         |            |         |           |                       |                           |                        |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                           |                        |                        |                     |          |
| 5               | QPSK       | 1       | 0         | 17.18                 | 17.26                     | 17.24                  | 17.05                  | 17.7                | 0        |
| 5               | QPSK       | 1       | 32        | 17.25                 | 17.25                     | 17.22                  | 17.18                  |                     |          |
| 5               | QPSK       | 1       | 24        | 17.26                 | 17.15                     | 17.23                  | 16.99                  |                     |          |
| 5               | QPSK       | 12      | 0         | 17.14                 | 17.17                     | 17.18                  | 16.97                  |                     |          |
| 5               | QPSK       | 12      | 7         | 17.13                 | 17.12                     | 17.08                  | 16.94                  |                     |          |
| 5               | QPSK       | 12      | 14        | 17.14                 | 17.14                     | 17.05                  | 16.94                  |                     |          |
| 5               | QPSK       | 25      | 0         | 17.17                 | 17.17                     | 17.12                  | 16.98                  |                     |          |
| 5               | QPSK       | 25      | 7         | 17.23                 | 17.10                     | 17.19                  | 17.10                  |                     |          |
| 5               | QPSK       | 25      | 14        | 17.13                 | 17.15                     | 17.12                  | 17.01                  |                     |          |
| 5               | 16QAM      | 1       | 0         | 17.13                 | 17.13                     | 17.19                  | 17.05                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 17.26                 | 17.13                     | 17.19                  | 17.05                  |                     |          |
| 5               | 16QAM      | 12      | 0         | 17.35                 | 17.20                     | 17.09                  | 17.11                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 17.23                 | 17.16                     | 17.11                  | 16.98                  |                     |          |
| 5               | 16QAM      | 12      | 14        | 17.25                 | 17.15                     | 17.20                  | 17.01                  |                     |          |
| 5               | 16QAM      | 25      | 0         | 17.19                 | 17.04                     | 17.12                  | 17.04                  |                     |          |
| 5               | 8QAM       | 1       | 0         | 17.19                 | 17.09                     | 17.21                  | 17.02                  |                     |          |
| 5               | 8QAM       | 1       | 24        | 17.15                 | 17.14                     | 17.21                  | 17.20                  |                     |          |
| 5               | 8QAM       | 12      | 0         | 17.28                 | 17.12                     | 17.18                  | 17.20                  |                     |          |
| 5               | 8QAM       | 12      | 7         | 17.18                 | 17.16                     | 17.19                  | 17.09                  |                     |          |
| 5               | 8QAM       | 12      | 14        | 17.20                 | 17.10                     | 17.21                  | 17.06                  |                     |          |
| 5               | 8QAM       | 25      | 0         | 17.15                 | 17.15                     | 17.19                  | 17.09                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 17.27                 | 17.15                     | 17.29                  | 17.09                  |                     |          |
| 5               | 256QAM     | 1       | 24        | 17.16                 | 17.18                     | 17.28                  | 17.06                  |                     |          |
| 5               | 256QAM     | 1       | 48        | 17.27                 | 17.13                     | 17.29                  | 17.03                  |                     |          |
| 5               | 256QAM     | 12      | 0         | 17.32                 | 17.13                     | 17.08                  | 16.97                  |                     |          |
| 5               | 256QAM     | 12      | 7         | 17.29                 | 17.08                     | 17.14                  | 17.18                  |                     |          |
| 5               | 256QAM     | 12      | 14        | 17.24                 | 17.24                     | 17.12                  | 17.05                  |                     |          |
| 5               | 256QAM     | 25      | 0         | 17.32                 | 17.09                     | 17.15                  | 17.11                  |                     |          |

## Reduced Power Mode for DS16

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       |       | Tune-up     | Frame-Average Power (dBm) |       |       |             | Tune-up |
|-----------------|---------------------------|-------|-------|-------|-------------|---------------------------|-------|-------|-------------|---------|
| TX Channel      | 128                       | 189   | 251   |       | Limit (dBm) | 128                       | 189   | 251   | Limit (dBm) |         |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |       |             | 824.2                     | 836.4 | 848.8 |             |         |
| GSM 1 Tx slot   | 31.90                     | 31.88 | 32.27 | 33.50 | 22.90       | 22.68                     | 23.27 | 24.50 | 24.50       |         |
| GPRS 1 Tx slot  | 31.88                     | 31.65 | 32.24 | 33.50 | 22.88       | 22.65                     | 23.24 | 24.50 | 24.50       |         |
| GPRS 2 Tx slots | 29.03                     | 29.37 | 29.58 | 30.50 | 23.03       | 23.37                     | 23.58 | 24.50 | 24.50       |         |
| GPRS 3 Tx slots | 27.82                     | 27.93 | 27.92 | 28.80 | 23.56       | 23.67                     | 23.66 | 24.50 | 24.50       |         |
| GPRS 4 Tx slots | 26.23                     | 26.41 | 26.43 | 27.50 | 23.23       | 23.41                     | 23.43 | 24.50 | 24.50       |         |
| EDGE 1 Tx slot  | 25.13                     | 25.25 | 25.56 | 26.50 | 16.13       | 16.25                     | 16.56 | 17.50 | 17.50       |         |
| EDGE 2 Tx slots | 24.25                     | 24.33 | 24.55 | 25.50 | 18.25       | 18.33                     | 18.55 | 19.50 | 19.50       |         |
| EDGE 3 Tx slots | 22.51                     | 22.31 | 22.72 | 23.50 | 18.25       | 18.05                     | 18.46 | 19.24 | 19.24       |         |
| EDGE 4 Tx slots | 20.51                     | 20.45 | 20.69 | 21.50 | 17.51       | 17.45                     | 17.69 | 18.50 | 18.50       |         |

| Band        | WCDMA_II_Ant 0          |        |       |        | Tune-up Limit (dBm) | WCDMA_II_Ant 1 |       |        |       | Tune-up Limit (dBm) |
|-------------|-------------------------|--------|-------|--------|---------------------|----------------|-------|--------|-------|---------------------|
|             | TX Channel              | 9262   | 9400  | 9538   |                     | 9262           | 9400  | 9538   |       |                     |
|             | Rx Channel              | 9662   | 9800  | 9938   |                     | 9662           | 9800  | 9938   |       |                     |
|             | Frequency (MHz)         | 1852.4 | 1880  | 1907.6 |                     | 1852.4         | 1880  | 1907.6 |       |                     |
| 3GPP Rel 99 | AMR 12.2Kbps            | 19.40  | 19.43 | 19.42  | 20.70               | 22.40          | 22.43 | 22.38  | 24.00 |                     |
| 3GPP Rel 99 | RMC 12.2Kbps            | 19.43  | 19.48 | 19.38  | 20.70               | 22.44          | 22.45 | 22.40  | 24.00 |                     |
| 3GPP Rel 6  | HSDPA Subtest-1         | 18.39  | 18.19 | 18.38  | 19.70               | 21.45          | 21.53 | 21.43  | 23.00 |                     |
| 3GPP Rel 6  | HSDPA Subtest-2         | 18.26  | 18.34 | 18.40  | 19.70               | 21.45          | 21.50 | 21.41  | 23.00 |                     |
| 3GPP Rel 6  | HSDPA Subtest-3         | 17.78  | 17.68 | 17.73  | 19.20               | 20.91          | 21.09 | 20.93  | 22.50 |                     |
| 3GPP Rel 6  | HSDPA Subtest-4         | 17.91  | 17.78 | 17.46  | 19.20               | 20.92          | 21.06 | 20.91  | 22.50 |                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-1      | 18.33  | 18.14 | 18.25  | 19.70               | 21.31          | 21.41 | 21.40  | 23.00 |                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-2      | 18.20  | 18.19 | 18.34  | 19.70               | 21.41          | 21.42 | 21.35  | 23.00 |                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-3      | 17.76  | 17.59 | 17.72  | 19.20               | 20.86          | 20.89 | 20.92  | 22.50 |                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-4      | 17.67  | 17.48 | 17.44  | 19.20               | 20.84          | 20.90 | 20.87  | 22.50 |                     |
| 3GPP Rel 6  | HSUPA Subtest-1         | 18.45  | 18.27 | 18.51  | 19.70               | 21.44          | 21.43 | 21.43  | 23.00 |                     |
| 3GPP Rel 6  | HSUPA Subtest-2         | 16.44  | 16.32 | 16.45  | 17.70               | 19.54          | 19.48 | 19.53  | 21.00 |                     |
| 3GPP Rel 6  | HSUPA Subtest-3         | 17.39  | 17.11 | 17.42  | 18.70               | 20.51          | 20.49 | 20.49  | 22.00 |                     |
| 3GPP Rel 6  | HSUPA Subtest-4         | 16.46  | 16.30 | 16.44  | 17.70               | 19.49          | 19.50 | 19.49  | 21.00 |                     |
| 3GPP Rel 6  | HSUPA Subtest-5         | 18.45  | 18.25 | 18.44  | 19.70               | 21.50          | 21.40 | 21.50  | 23.00 |                     |
| 3GPP Rel 7  | HSPA+ (16QAM) Subtest-1 | 17.20  | 17.14 | 17.18  | 18.20               | 19.69          | 19.87 | 19.76  | 21.50 |                     |

| Band        | WCDMA_V_Ant 0           |       |       |       |                     | WCDMA_V_Ant 1 |       |       |                     |  |
|-------------|-------------------------|-------|-------|-------|---------------------|---------------|-------|-------|---------------------|--|
|             | TX Channel              | 4132  | 4182  | 4233  | Tune-up Limit (dBm) | 4132          | 4182  | 4233  | Tune-up Limit (dBm) |  |
|             | Rx Channel              | 4357  | 4407  | 4458  |                     | 4357          | 4407  | 4458  |                     |  |
|             | Frequency (MHz)         | 826.4 | 836.4 | 846.6 |                     | 826.4         | 836.4 | 846.6 |                     |  |
| 3GPP Rel 99 | AMR 12.2Kbps            | 22.13 | 22.25 | 22.22 | 24.00               | 22.48         | 22.62 | 22.60 | 24.00               |  |
| 3GPP Rel 99 | RMC 12.2Kbps            | 22.15 | 22.27 | 22.25 | 24.00               | 22.50         | 22.65 | 22.62 | 24.00               |  |
| 3GPP Rel 6  | HSDPA Subtest-1         | 21.19 | 21.26 | 21.30 | 23.00               | 21.54         | 21.67 | 21.77 | 23.00               |  |
| 3GPP Rel 6  | HSDPA Subtest-2         | 21.14 | 21.27 | 21.33 | 23.00               | 21.54         | 21.68 | 21.74 | 23.00               |  |
| 3GPP Rel 6  | HSDPA Subtest-3         | 20.65 | 20.74 | 20.65 | 22.50               | 20.99         | 21.11 | 21.26 | 22.50               |  |
| 3GPP Rel 6  | HSDPA Subtest-4         | 20.65 | 20.74 | 20.77 | 22.50               | 21.00         | 21.16 | 21.25 | 22.50               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-1      | 21.10 | 21.21 | 21.02 | 23.00               | 21.73         | 21.69 | 21.72 | 23.00               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-2      | 21.06 | 21.13 | 21.09 | 23.00               | 21.63         | 21.68 | 21.67 | 23.00               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-3      | 20.53 | 20.69 | 20.58 | 22.50               | 21.21         | 21.20 | 21.08 | 22.50               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-4      | 20.70 | 20.71 | 20.59 | 22.50               | 21.11         | 21.17 | 21.03 | 22.50               |  |
| 3GPP Rel 6  | HSUPA Subtest-1         | 21.12 | 21.22 | 21.28 | 23.00               | 21.70         | 21.68 | 21.75 | 23.00               |  |
| 3GPP Rel 6  | HSUPA Subtest-2         | 19.14 | 19.26 | 19.29 | 21.00               | 19.66         | 19.64 | 19.74 | 21.00               |  |
| 3GPP Rel 6  | HSUPA Subtest-3         | 20.14 | 20.23 | 20.30 | 22.00               | 20.65         | 20.64 | 20.70 | 22.00               |  |
| 3GPP Rel 6  | HSUPA Subtest-4         | 19.14 | 19.23 | 19.28 | 21.00               | 19.56         | 19.66 | 19.74 | 21.00               |  |
| 3GPP Rel 6  | HSUPA Subtest-5         | 21.10 | 21.20 | 21.30 | 23.00               | 21.50         | 21.60 | 21.70 | 23.00               |  |
| 3GPP Rel 7  | HSPA+ (16QAM) Subtest-1 | 19.54 | 19.66 | 19.60 | 21.50               | 20.08         | 20.15 | 20.03 | 21.50               |  |

| GSM1900_Ant 0   | Burst Average Power (dbm) |        |       |        | Tune-up Limit (dbm) | Frame-Average Power (dbm) |       |        |       | Tune-up Limit (dbm) |
|-----------------|---------------------------|--------|-------|--------|---------------------|---------------------------|-------|--------|-------|---------------------|
|                 | TX Channel                | 512    | 661   | 810    |                     | 512                       | 661   | 810    |       |                     |
| Frequency (MHz) |                           | 1850.2 | 1680  | 1909.8 |                     | 1850.2                    | 1680  | 1909.8 |       |                     |
| GSM 1 Tx slot   |                           | 28.65  | 28.63 | 28.85  | 30.50               | 19.65                     | 19.63 | 19.85  | 21.50 |                     |
| GPRS 1 Tx slot  |                           | 28.63  | 28.81 | 28.83  | 30.50               | 19.63                     | 19.81 | 19.83  | 21.50 |                     |
| GPRS 2 Tx slots |                           | 26.61  | 26.48 | 26.50  | 27.50               | 20.61                     | 20.48 | 20.50  | 21.50 |                     |
| GPRS 3 Tx slots |                           | 24.83  | 24.88 | 24.81  | 25.80               | 20.57                     | 20.62 | 20.55  | 21.54 |                     |
| GPRS 4 Tx slots |                           | 23.40  | 23.41 | 23.27  | 24.50               | 20.40                     | 20.41 | 20.27  | 21.50 |                     |
| EDGE 1 Tx slot  |                           | 24.81  | 24.46 | 24.81  | 26.00               | 15.81                     | 15.46 | 15.81  | 19.00 |                     |
| EDGE 2 Tx slots |                           | 23.51  | 23.61 | 23.31  | 25.00               | 17.51                     | 17.61 | 17.31  | 19.00 |                     |
| EDGE 3 Tx slots |                           | 21.80  | 21.81 | 21.71  | 23.00               | 17.54                     | 17.55 | 17.45  | 18.74 |                     |
| EDGE 4 Tx slots |                           | 19.81  | 19.77 | 19.71  | 21.50               | 16.81                     | 16.77 | 16.71  | 18.50 |                     |

| Band            | WCDMA_IV_Ant_0          |        |        |        | Tune-up Limit (dBm) | WCDMA_IV_Ant_1 |        |        |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|--------|--------|---------------------|----------------|--------|--------|-------|---------------------|
|                 | TX Channel              | 1312   | 1413   | 1513   |                     | 1312           | 1413   | 1513   |       |                     |
| Rx Channel      |                         | 1537   | 1638   | 1738   |                     | 1537           | 1638   | 1738   |       |                     |
| Frequency (MHz) |                         | 1712.4 | 1732.6 | 1752.6 |                     | 1712.4         | 1732.6 | 1752.6 |       |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 20.06  | 20.31  | 20.22  | 21.20               | 20.50          | 20.69  | 20.64  | 21.90 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 20.14  | 20.32  | 20.26  | 21.20               | 20.58          | 20.71  | 20.66  | 21.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 19.12  | 19.39  | 19.27  | 20.20               | 19.55          | 19.74  | 19.67  | 20.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 19.11  | 19.39  | 19.17  | 20.20               | 19.57          | 19.86  | 19.67  | 20.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 18.65  | 18.89  | 18.75  | 19.70               | 19.11          | 19.35  | 19.27  | 20.40 |                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 18.58  | 18.87  | 18.62  | 19.70               | 19.13          | 19.35  | 19.14  | 20.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 18.81  | 19.27  | 19.04  | 20.20               | 19.60          | 19.70  | 19.70  | 20.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 18.87  | 19.25  | 19.18  | 20.20               | 19.65          | 19.58  | 19.39  | 20.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 18.48  | 18.65  | 18.51  | 19.70               | 19.07          | 19.08  | 18.97  | 20.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 18.32  | 18.68  | 18.45  | 19.70               | 18.93          | 19.12  | 18.98  | 20.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 19.35  | 19.42  | 19.25  | 20.20               | 19.71          | 19.79  | 19.66  | 20.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 17.37  | 17.36  | 17.24  | 18.20               | 17.73          | 17.81  | 17.75  | 18.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 18.25  | 18.34  | 18.32  | 19.20               | 18.81          | 18.73  | 18.68  | 19.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 17.20  | 17.34  | 17.24  | 18.20               | 17.76          | 17.85  | 17.78  | 18.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 19.27  | 19.35  | 19.25  | 20.20               | 19.79          | 19.78  | 19.72  | 20.90 |                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 18.12  | 18.14  | 18.03  | 18.70               | 18.02          | 18.25  | 18.29  | 19.40 |                     |



| Band 2_Ant 0    |            |            |              |                            |                            |                             |                         |             |  |
|-----------------|------------|------------|--------------|----------------------------|----------------------------|-----------------------------|-------------------------|-------------|--|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch / Freq. | Power<br>Med<br>Ch / Freq. | Power<br>High<br>Ch / Freq. | Turn-on<br>time<br>(ms) | MPE<br>(dB) |  |
| Channel         |            |            |              |                            |                            |                             |                         |             |  |
| Frequency (MHz) |            |            |              |                            |                            |                             |                         |             |  |
| 20              | QPSK       | 1          | 0            | 19.42                      | 19.48                      | 19.41                       | 20.9                    | 0           |  |
| 20              | QPSK       | 1          | 49           | 19.52                      | 19.55                      | 19.50                       |                         |             |  |
| 20              | QPSK       | 1          | 97           | 19.52                      | 19.57                      | 19.54                       |                         |             |  |
| 20              | QPSK       | 50         | 24           | 19.38                      | 19.39                      | 19.39                       |                         |             |  |
| 20              | QPSK       | 50         | 50           | 19.38                      | 19.41                      | 19.46                       |                         |             |  |
| 20              | QPSK       | 100        | 0            | 19.48                      | 19.50                      | 19.46                       | 20.9                    | 0           |  |
| 20              | HQAM       | 1          | 0            | 19.50                      | 19.46                      | 19.48                       |                         |             |  |
| 20              | HQAM       | 1          | 49           | 19.49                      | 19.46                      | 19.41                       |                         |             |  |
| 20              | HQAM       | 1          | 99           | 19.49                      | 19.48                      | 19.42                       |                         |             |  |
| 20              | HQAM       | 50         | 0            | 19.38                      | 19.44                      | 19.43                       |                         |             |  |
| 20              | HQAM       | 50         | 24           | 19.42                      | 19.40                      | 19.43                       | 20.9                    | 0           |  |
| 20              | HQAM       | 100        | 0            | 19.47                      | 19.42                      | 19.39                       |                         |             |  |
| 20              | HQAM       | 1          | 49           | 19.39                      | 19.48                      | 19.40                       |                         |             |  |
| 20              | HQAM       | 1          | 99           | 19.42                      | 19.47                      | 19.36                       |                         |             |  |
| 20              | HQAM       | 50         | 0            | 19.43                      | 19.41                      | 19.43                       |                         |             |  |
| 20              | HQAM       | 50         | 24           | 19.38                      | 19.45                      | 19.49                       | 20.9                    | 0           |  |
| 20              | HQAM       | 50         | 50           | 19.39                      | 19.43                      | 19.43                       |                         |             |  |
| 20              | HQAM       | 100        | 0            | 19.51                      | 19.49                      | 19.37                       |                         |             |  |
| 20              | 25GQAM     | 1          | 0            | 19.72                      | 19.75                      | 19.65                       |                         |             |  |
| 20              | 25GQAM     | 1          | 49           | 19.52                      | 19.58                      | 19.58                       |                         |             |  |
| 20              | 25GQAM     | 1          | 99           | 19.58                      | 19.63                      | 19.40                       | 20.9                    | 0.9         |  |
| 20              | 25GQAM     | 50         | 0            | 19.47                      | 19.60                      | 19.51                       |                         |             |  |
| 20              | 25GQAM     | 50         | 24           | 19.47                      | 19.58                      | 19.46                       |                         |             |  |
| 20              | 25GQAM     | 50         | 50           | 19.48                      | 19.52                      | 19.46                       |                         |             |  |
| 20              | 25GQAM     | 100        | 0            | 19.62                      | 19.64                      | 19.41                       |                         |             |  |
| Channel         |            |            |              | 19675                      | 19680                      | 19616                       | Turn-on<br>(ms)         | MPE<br>(dB) |  |
| Frequency (MHz) |            |            |              | 19173                      | 19490                      | 19053                       |                         |             |  |
| 16              | QPSK       | 1          | 0            | 19.36                      | 19.39                      | 19.38                       | 20.9                    | 0           |  |
| 16              | QPSK       | 1          | 97           | 19.49                      | 19.50                      | 19.39                       |                         |             |  |
| 16              | QPSK       | 1          | 192          | 19.34                      | 19.36                      | 19.31                       |                         |             |  |
| 16              | QPSK       | 36         | 20           | 19.32                      | 19.31                      | 19.36                       |                         |             |  |
| 16              | QPSK       | 36         | 20           | 19.31                      | 19.32                      | 19.37                       |                         |             |  |
| 16              | QPSK       | 36         | 20           | 19.31                      | 19.32                      | 19.37                       | 20.9                    | 0           |  |
| 16              | QPSK       | 76         | 0            | 19.37                      | 19.48                      | 19.45                       |                         |             |  |
| 16              | HQAM       | 1          | 0            | 19.42                      | 19.43                      | 19.41                       |                         |             |  |
| 16              | HQAM       | 1          | 49           | 19.47                      | 19.43                      | 19.43                       |                         |             |  |
| 16              | HQAM       | 1          | 74           | 19.44                      | 19.39                      | 19.31                       |                         |             |  |
| 16              | HQAM       | 36         | 0            | 19.29                      | 19.38                      | 19.29                       | 20.9                    | 0           |  |
| 16              | HQAM       | 36         | 20           | 19.31                      | 19.36                      | 19.38                       |                         |             |  |
| 16              | HQAM       | 36         | 36           | 19.36                      | 19.32                      | 19.38                       |                         |             |  |
| 16              | HQAM       | 76         | 0            | 19.33                      | 19.39                      | 19.32                       |                         |             |  |
| 16              | HQAM       | 76         | 24           | 19.41                      | 19.35                      | 19.40                       |                         |             |  |
| 16              | HQAM       | 1          | 27           | 19.29                      | 19.41                      | 19.29                       | 20.9                    | 0           |  |
| 16              | HQAM       | 1          | 74           | 19.34                      | 19.36                      | 19.34                       |                         |             |  |
| 16              | HQAM       | 36         | 0            | 19.33                      | 19.37                      | 19.38                       |                         |             |  |
| 16              | HQAM       | 36         | 20           | 19.32                      | 19.30                      | 19.45                       |                         |             |  |
| 16              | HQAM       | 36         | 36           | 19.27                      | 19.37                      | 19.32                       |                         |             |  |
| 16              | 25GQAM     | 1          | 0            | 19.64                      | 19.59                      | 19.50                       | 20.9                    | 0.9         |  |
| 16              | 25GQAM     | 1          | 49           | 19.48                      | 19.47                      | 19.53                       |                         |             |  |
| 16              | 25GQAM     | 1          | 97           | 19.45                      | 19.47                      | 19.53                       |                         |             |  |
| 16              | 25GQAM     | 36         | 0            | 19.34                      | 19.44                      | 19.49                       |                         |             |  |
| 16              | 25GQAM     | 36         | 20           | 19.34                      | 19.28                      | 19.31                       |                         |             |  |
| 16              | 25GQAM     | 76         | 0            | 19.37                      | 19.42                      | 19.28                       | 20.9                    | 0           |  |
| Channel         |            |            |              | 19660                      | 19660                      | 19616                       | Turn-on<br>(ms)         | MPE<br>(dB) |  |
| Frequency (MHz) |            |            |              | 19173                      | 19490                      | 19053                       |                         |             |  |
| 10              | QPSK       | 1          | 0            | 19.33                      | 19.32                      | 19.30                       | 20.9                    | 0           |  |
| 10              | QPSK       | 1          | 49           | 19.51                      | 19.39                      | 19.40                       |                         |             |  |
| 10              | QPSK       | 1          | 97           | 19.41                      | 19.37                      | 19.44                       |                         |             |  |
| 10              | QPSK       | 26         | 12           | 19.31                      | 19.32                      | 19.25                       |                         |             |  |
| 10              | QPSK       | 26         | 12           | 19.37                      | 19.39                      | 19.43                       |                         |             |  |
| 10              | QPSK       | 26         | 12           | 19.37                      | 19.39                      | 19.43                       | 20.9                    | 0           |  |
| 10              | QPSK       | 50         | 0            | 19.48                      | 19.37                      | 19.44                       |                         |             |  |
| 10              | HQAM       | 1          | 0            | 19.38                      | 19.34                      | 19.43                       |                         |             |  |
| 10              | HQAM       | 1          | 25           | 19.36                      | 19.40                      | 19.38                       |                         |             |  |
| 10              | HQAM       | 1          | 49           | 19.42                      | 19.38                      | 19.35                       |                         |             |  |
| 10              | HQAM       | 26         | 0            | 19.28                      | 19.29                      | 19.39                       | 20.9                    | 0           |  |
| 10              | HQAM       | 26         | 12           | 19.29                      | 19.49                      | 19.32                       |                         |             |  |
| 10              | HQAM       | 26         | 26           | 19.37                      | 19.28                      | 19.31                       |                         |             |  |
| 10              | HQAM       | 50         | 0            | 19.40                      | 19.39                      | 19.26                       |                         |             |  |
| 10              | HQAM       | 50         | 0            | 19.44                      | 19.39                      | 19.27                       |                         |             |  |
| 10              | HQAM       | 1          | 25           | 19.30                      | 19.34                      | 19.27                       | 20.9                    | 0           |  |
| 10              | HQAM       | 1          | 49           | 19.33                      | 19.41                      | 19.26                       |                         |             |  |
| 10              | HQAM       | 1          | 49           | 19.41                      | 19.39                      | 19.32                       |                         |             |  |
| 10              | HQAM       | 26         | 12           | 19.23                      | 19.44                      | 19.39                       |                         |             |  |
| 10              | HQAM       | 26         | 26           | 19.34                      | 19.33                      | 19.39                       |                         |             |  |
| 10              | 25GQAM     | 1          | 0            | 19.61                      | 19.59                      | 19.41                       | 20.9                    | 0.9         |  |
| 10              | 25GQAM     | 1          | 25           | 19.38                      | 19.46                      | 19.44                       |                         |             |  |
| 10              | 25GQAM     | 1          | 49           | 19.46                      | 19.56                      | 19.52                       |                         |             |  |
| 10              | 25GQAM     | 26         | 0            | 19.34                      | 19.36                      | 19.45                       |                         |             |  |
| 10              | 25GQAM     | 26         | 12           | 19.35                      | 19.45                      | 19.29                       |                         |             |  |
| 10              | 25GQAM     | 50         | 0            | 19.61                      | 19.59                      | 19.17                       | 20.9                    | 0           |  |
| Channel         |            |            |              | 19625                      | 19490                      | 19616                       | Turn-on<br>(ms)         | MPE<br>(dB) |  |
| Frequency (MHz) |            |            |              | 19173                      | 19490                      | 19053                       |                         |             |  |
| 5               | QPSK       | 1          | 0            | 19.37                      | 19.45                      | 19.36                       | 20.9                    | 0           |  |
| 5               | QPSK       | 1          | 12           | 19.44                      | 19.47                      | 19.40                       |                         |             |  |
| 5               | QPSK       | 1          | 12           | 19.28                      | 19.24                      | 19.41                       |                         |             |  |
| 5               | QPSK       | 12         | 7            | 19.33                      | 19.30                      | 19.30                       |                         |             |  |
| 5               | QPSK       | 12         | 7            | 19.34                      | 19.39                      | 19.43                       |                         |             |  |
| 5               | QPSK       | 12         | 7            | 19.34                      | 19.39                      | 19.43                       | 20.9                    | 0           |  |
| 5               | QPSK       | 26         | 0            | 19.34                      | 19.38                      | 19.35                       |                         |             |  |
| 5               | HQAM       | 1          | 0            | 19.42                      | 19.41                      | 19.35                       |                         |             |  |
| 5               | HQAM       | 1          | 24           | 19.38                      | 19.34                      | 19.33                       |                         |             |  |
| 5               | HQAM       | 1          | 24           | 19.41                      | 19.29                      | 19.29                       |                         |             |  |
| 5               | HQAM       | 12         | 0            | 19.31                      | 19.35                      | 19.36                       | 20.9                    | 0           |  |
| 5               | HQAM       | 12         | 7            | 19.38                      | 19.41                      | 19.38                       |                         |             |  |
| 5               | HQAM       | 12         | 13           | 19.31                      | 19.38                      | 19.27                       |                         |             |  |
| 5               | HQAM       | 26         | 0            | 19.33                      | 19.32                      | 19.26                       |                         |             |  |
| 5               | HQAM       | 26         | 0            | 19.34                      | 19.29                      | 19.29                       |                         |             |  |
| 5               | HQAM       | 1          | 12           | 19.37                      | 19.42                      | 19.27                       | 20.9                    | 0           |  |
| 5               | HQAM       | 1          | 24           | 19.36                      | 19.42                      | 19.31                       |                         |             |  |
| 5               | HQAM       | 12         | 0            | 19.41                      | 19.39                      | 19.33                       |                         |             |  |
| 5               | HQAM       | 12         | 7            | 19.27                      | 19.35                      | 19.49                       |                         |             |  |
| 5               | HQAM       | 12         | 13           | 19.26                      | 19.36                      | 19.31                       |                         |             |  |
| 5               | 25GQAM     | 1          | 0            | 19.49                      | 19.39                      | 19.26                       | 20.9                    | 0.9         |  |
| 5               | 25GQAM     | 1          | 12           | 19.47                      | 19.53                      | 19.44                       |                         |             |  |
| 5               | 25GQAM     | 12         | 0            | 19.36                      | 19.52                      | 19.45                       |                         |             |  |
| 5               | 25GQAM     | 12         | 7            | 19.47                      | 19.53                      | 19.34                       |                         |             |  |
| 5               | 25GQAM     | 12         | 13           | 19.27                      | 19.33                      | 19.36                       |                         |             |  |
| 5               | 25GQAM     | 26         | 0            | 19.46                      | 19.49                      | 19.24                       | 20.9                    | 0           |  |
| Channel         |            |            |              | 19616                      | 19600                      | 19616                       | Turn-on<br>(ms)         | MPE<br>(dB) |  |
| Frequency (MHz) |            |            |              | 19173                      | 19490                      | 19053                       |                         |             |  |
| 3               | QPSK       | 1          | 0            | 19.35                      | 19.36                      | 19.31                       | 20.9                    | 0           |  |
| 3               | QPSK       | 1          | 8            | 19.38                      | 19.51                      | 19.46                       |                         |             |  |
| 3               | QPSK       | 1          | 8            | 19.32                      | 19.23                      | 19.34                       |                         |             |  |
| 3               | QPSK       | 8          | 4            | 19.30                      | 19.22                      | 19.30                       |                         |             |  |
| 3               | QPSK       | 8          | 4            | 19.24                      | 19.33                      | 19.35                       |                         |             |  |
| 3               | QPSK       | 8          | 4            | 19.24                      | 19.33                      | 19.35                       | 20.9                    | 0           |  |
| 3               | QPSK       | 16         | 0            | 19.40                      | 19.38                      | 19.34                       |                         |             |  |
| 3               | HQAM       | 1          | 0            | 19.42                      | 19.42                      | 19.35                       |                         |             |  |
| 3               | HQAM       | 1          | 8            | 19.40                      | 19.36                      | 19.35                       |                         |             |  |
| 3               | HQAM       | 1          | 14           | 19.45                      | 19.29                      | 19.35                       |                         |             |  |
| 3               | HQAM       | 8          | 0            | 19.30                      | 19.42                      | 19.37                       | 20.9                    | 0           |  |
| 3               | HQAM       | 8          | 4            | 19.30                      | 19.34                      | 19.38                       |                         |             |  |
| 3               | HQAM       | 8          | 7            | 19.40                      | 19.36                      | 19.35                       |                         |             |  |
| 3               | HQAM       | 16         | 0            | 19.33                      | 19.27                      | 19.26                       |                         |             |  |
| 3               | HQAM       | 16         | 0            | 19.40                      | 19.36                      | 19.33                       |                         |             |  |
| 3               | HQAM       | 1          | 8            | 19.29                      | 19.38                      | 19.36                       | 20.9                    | 0           |  |
| 3               | HQAM       | 1          | 14           | 19.38                      | 19.45                      | 19.22                       |                         |             |  |
| 3               | HQAM       | 8          | 0            | 19.30                      | 19.40                      | 19.35                       |                         |             |  |
| 3               | HQAM       | 8          | 4            | 19.28                      | 19.33                      | 19.37                       |                         |             |  |
| 3               | HQAM       | 8          | 7            | 19.34                      | 19.42                      | 19.33                       |                         |             |  |
| 3               | 25GQAM     | 1          | 0            | 19.49                      | 19.44                      | 19.31                       | 20.9                    | 0.9         |  |
| 3               | 25GQAM     | 1          | 8            | 19.36                      | 19.60                      | 19.44                       |                         |             |  |
| 3               | 25GQAM     | 1          | 8            | 19.32                      | 19.43                      | 19.38                       |                         |             |  |
| 3               | 25GQAM     | 1          | 14           | 19.46                      | 19.58                      | 19.29                       |                         |             |  |
| 3               | 25GQAM     | 8          | 0            | 19.36                      | 19.39                      | 19.35                       |                         |             |  |
| 3               | 25GQAM     | 8          | 4            | 19.37                      | 19.47                      | 19.46                       | 20.9                    | 0           |  |



| Band 5_Ant 0 |            |         |           |                                                                                |                                                                  |                                                     |                    |          |  |  |  |  |                    |          |  |  |  |  |
|--------------|------------|---------|-----------|--------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|--------------------|----------|--|--|--|--|--------------------|----------|--|--|--|--|
| BW (MHz)     | Modulation | RB Size | RB Offset | Power Low Ch / Freq.                                                           | Power Mid Ch / Freq.                                             | Power High Ch / Freq.                               | Time-use int (sec) | MRR (dB) |  |  |  |  |                    |          |  |  |  |  |
| Channel      |            |         |           |                                                                                |                                                                  |                                                     |                    |          |  |  |  |  |                    |          |  |  |  |  |
|              |            |         |           | 22.67                                                                          | 22.65                                                            | 22.67                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 1       | 0         | 22.45                                                                          | 22.50                                                            | 22.57                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 1       | 25        | 22.57                                                                          | 22.63                                                            | 22.69                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 1       | 49        | 22.69                                                                          | 22.74                                                            | 22.81                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 25      | 0         | 22.55                                                                          | 22.54                                                            | 22.55                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 25      | 12        | 22.43                                                                          | 22.50                                                            | 22.56                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 25      | 12        | 22.43                                                                          | 22.50                                                            | 22.56                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 25      | 25        | 22.52                                                                          | 22.54                                                            | 22.56                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | QPSK       | 50      | 0         | 22.52                                                                          | 22.58                                                            | 22.57                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 0         | 22.35                                                                          | 22.38                                                            | 22.51                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 25        | 22.34                                                                          | 22.54                                                            | 22.51                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 49        | 21.37                                                                          | 21.51                                                            | 21.55                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 0         | 21.41                                                                          | 21.40                                                            | 21.43                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 12        | 21.47                                                                          | 21.52                                                            | 21.51                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 25        | 21.47                                                                          | 21.44                                                            | 21.51                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 50      | 0         | 21.42                                                                          | 21.46                                                            | 21.48                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 0         | 21.41                                                                          | 21.40                                                            | 21.43                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 25        | 21.45                                                                          | 21.43                                                            | 21.51                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 1       | 49        | 21.37                                                                          | 21.51                                                            | 21.55                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 0         | 20.34                                                                          | 20.40                                                            | 20.52                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 12        | 20.47                                                                          | 20.52                                                            | 20.48                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 25      | 25        | 20.45                                                                          | 20.44                                                            | 20.51                                               | 22                 | 2        |  |  |  |  |                    |          |  |  |  |  |
| 10           | HQAM       | 50      | 0         | 20.45                                                                          | 20.46                                                            | 20.47                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 1       | 0         | 18.81                                                                          | 18.82                                                            | 18.78                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 1       | 25        | 18.87                                                                          | 18.86                                                            | 18.82                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 1       | 49        | 18.81                                                                          | 18.83                                                            | 18.86                                               | 20                 | 4        |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 25      | 0         | 18.80                                                                          | 18.84                                                            | 18.83                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 25      | 12        | 18.84                                                                          | 18.88                                                            | 18.85                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 25      | 25        | 18.84                                                                          | 18.87                                                            | 18.82                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 10           | SSBDM      | 50      | 0         | 18.80                                                                          | 18.88                                                            | 18.81                                               | 20                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| Channel      |            |         |           |                                                                                |                                                                  |                                                     |                    |          |  |  |  |  |                    |          |  |  |  |  |
|              |            |         |           | 22.67 <th>22.65<th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th></th> | 22.65 <th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th> | 22.67 <th>Time-use int (sec)</th> <th>MRR (dB)</th> |                    |          |  |  |  |  | Time-use int (sec) | MRR (dB) |  |  |  |  |
| 5            | QPSK       | 1       | 0         | 22.43                                                                          | 22.43                                                            | 22.53                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 1       | 12        | 22.48                                                                          | 22.60                                                            | 22.58                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 1       | 24        | 22.38                                                                          | 22.44                                                            | 22.48                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 1       | 49        | 22.42                                                                          | 22.44                                                            | 22.43                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 12      | 0         | 22.38                                                                          | 22.44                                                            | 22.50                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 12      | 7         | 22.38                                                                          | 22.44                                                            | 22.50                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 25      | 0         | 22.45                                                                          | 22.47                                                            | 22.54                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | QPSK       | 25      | 0         | 22.27                                                                          | 22.33                                                            | 22.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 1       | 24        | 22.37                                                                          | 22.34                                                            | 22.46                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 1       | 24        | 22.37                                                                          | 22.34                                                            | 22.36                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 12      | 0         | 21.27                                                                          | 21.38                                                            | 21.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 12      | 13        | 21.43                                                                          | 21.43                                                            | 21.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 12      | 13        | 21.43                                                                          | 21.34                                                            | 21.42                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 25      | 0         | 21.36                                                                          | 21.37                                                            | 21.40                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 25      | 0         | 21.39                                                                          | 21.33                                                            | 21.31                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 1       | 12        | 21.35                                                                          | 21.33                                                            | 21.42                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 1       | 24        | 21.26                                                                          | 21.43                                                            | 21.47                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 12      | 0         | 20.31                                                                          | 20.33                                                            | 20.42                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 12      | 7         | 20.40                                                                          | 20.41                                                            | 20.37                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | HQAM       | 12      | 13        | 20.41                                                                          | 20.35                                                            | 20.48                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 1       | 0         | 18.74                                                                          | 18.74                                                            | 18.75                                               | 20                 | 4        |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 1       | 12        | 18.81                                                                          | 18.85                                                            | 18.87                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 1       | 49        | 18.81                                                                          | 18.83                                                            | 18.86                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 12      | 0         | 18.74                                                                          | 18.72                                                            | 18.76                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 12      | 13        | 18.81                                                                          | 18.76                                                            | 18.70                                               | 20                 | 4        |  |  |  |  |                    |          |  |  |  |  |
| 5            | SSBDM      | 25      | 0         | 18.78                                                                          | 18.85                                                            | 18.72                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| Channel      |            |         |           |                                                                                |                                                                  |                                                     |                    |          |  |  |  |  |                    |          |  |  |  |  |
|              |            |         |           | 22.67 <th>22.65<th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th></th> | 22.65 <th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th> | 22.67 <th>Time-use int (sec)</th> <th>MRR (dB)</th> |                    |          |  |  |  |  | Time-use int (sec) | MRR (dB) |  |  |  |  |
| 3            | QPSK       | 1       | 0         | 22.33                                                                          | 22.39                                                            | 22.53                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 1       | 8         | 22.48                                                                          | 22.58                                                            | 22.48                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 1       | 14        | 22.38                                                                          | 22.40                                                            | 22.58                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 1       | 49        | 22.48                                                                          | 22.54                                                            | 22.51                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 8       | 0         | 22.39                                                                          | 22.39                                                            | 22.52                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 8       | 7         | 22.51                                                                          | 22.44                                                            | 22.49                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 15      | 0         | 22.43                                                                          | 22.44                                                            | 22.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | QPSK       | 15      | 0         | 22.43                                                                          | 22.55                                                            | 22.49                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 1       | 0         | 22.30                                                                          | 22.31                                                            | 22.36                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 1       | 8         | 22.26                                                                          | 22.42                                                            | 22.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 8       | 0         | 21.31                                                                          | 21.38                                                            | 21.43                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 8       | 4         | 21.36                                                                          | 21.46                                                            | 21.42                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 8       | 7         | 21.39                                                                          | 21.37                                                            | 21.46                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 15      | 0         | 21.37                                                                          | 21.36                                                            | 21.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 1       | 0         | 21.38                                                                          | 21.38                                                            | 21.32                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 1       | 8         | 21.33                                                                          | 21.31                                                            | 21.40                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 1       | 14        | 21.26                                                                          | 21.40                                                            | 21.52                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 8       | 0         | 20.34                                                                          | 20.36                                                            | 20.47                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 8       | 4         | 20.40                                                                          | 20.44                                                            | 20.37                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 15      | 0         | 20.42                                                                          | 20.37                                                            | 20.41                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | HQAM       | 1       | 0         | 20.35                                                                          | 20.41                                                            | 20.38                                               | 22                 | 2        |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 1       | 0         | 18.69                                                                          | 18.69                                                            | 18.64                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 1       | 8         | 18.65                                                                          | 18.61                                                            | 18.64                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 1       | 14        | 18.69                                                                          | 18.63                                                            | 18.64                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 8       | 0         | 18.69                                                                          | 18.77                                                            | 18.76                                               | 20                 | 4        |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 8       | 4         | 18.74                                                                          | 18.64                                                            | 18.69                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 8       | 7         | 18.75                                                                          | 18.79                                                            | 18.76                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 3            | SSBDM      | 15      | 0         | 18.78                                                                          | 18.76                                                            | 18.73                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| Channel      |            |         |           |                                                                                |                                                                  |                                                     |                    |          |  |  |  |  |                    |          |  |  |  |  |
|              |            |         |           | 22.67 <th>22.65<th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th></th> | 22.65 <th>22.67<th>Time-use int (sec)</th><th>MRR (dB)</th></th> | 22.67 <th>Time-use int (sec)</th> <th>MRR (dB)</th> |                    |          |  |  |  |  | Time-use int (sec) | MRR (dB) |  |  |  |  |
| 1.4          | QPSK       | 1       | 0         | 22.33                                                                          | 22.39                                                            | 22.49                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 1       | 3         | 22.48                                                                          | 22.56                                                            | 22.51                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 1       | 5         | 22.36                                                                          | 22.47                                                            | 22.52                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 1       | 49        | 22.48                                                                          | 22.54                                                            | 22.51                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 3       | 0         | 22.42                                                                          | 22.42                                                            | 22.48                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 3       | 1         | 22.40                                                                          | 22.48                                                            | 22.41                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 3       | 3         | 22.40                                                                          | 22.42                                                            | 22.48                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | QPSK       | 3       | 3         | 22.42                                                                          | 22.48                                                            | 22.41                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 1       | 0         | 22.25                                                                          | 22.26                                                            | 22.40                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 1       | 3         | 22.24                                                                          | 22.42                                                            | 22.40                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 0         | 22.49                                                                          | 22.49                                                            | 22.52                                               | 24                 | 0        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 1         | 22.38                                                                          | 22.44                                                            | 22.49                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 3         | 22.34                                                                          | 22.42                                                            | 22.36                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 3         | 22.49                                                                          | 22.48                                                            | 22.52                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 6       | 0         | 21.32                                                                          | 21.35                                                            | 21.43                                               | 23                 | 1        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 6       | 1         | 21.37                                                                          | 21.30                                                            | 21.34                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 6       | 3         | 21.42                                                                          | 21.33                                                            | 21.44                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 6       | 3         | 21.42                                                                          | 21.36                                                            | 21.43                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 0         | 20.36                                                                          | 20.36                                                            | 20.37                                               | 22                 | 2        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | HQAM       | 3       | 1         | 20.36                                                                          | 20.36                                                            | 20.37                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 1       | 0         | 18.92                                                                          | 18.94                                                            | 18.94                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 1       | 3         | 18.97                                                                          | 18.93                                                            | 18.94                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 1       | 5         | 18.97                                                                          | 18.78                                                            | 18.74                                               | 20                 | 4        |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 3       | 0         | 18.76                                                                          | 18.80                                                            | 18.76                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 3       | 1         | 18.80                                                                          | 18.84                                                            | 18.73                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 3       | 3         | 18.80                                                                          | 18.84                                                            | 18.73                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 3       | 3         | 18.80                                                                          | 18.84                                                            | 18.73                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |
| 1.4          | SSBDM      | 3       | 3         | 18.80                                                                          | 18.84                                                            | 18.73                                               |                    |          |  |  |  |  |                    |          |  |  |  |  |



| Band 12_Ant 0   |            |        |           |                     |                     |                      |                  |          |  |  |
|-----------------|------------|--------|-----------|---------------------|---------------------|----------------------|------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Low Ch./Freq. | Power Med Ch./Freq. | Power High Ch./Freq. | Timeup int (dBs) | MPR (dB) |  |  |
| Channel         |            |        |           |                     |                     |                      |                  |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                  |          |  |  |
| 10              | QPSK       | 1      | 0         | 22.78               | 22.86               | 22.85                |                  |          |  |  |
| 10              | QPSK       | 1      | 25        | 22.85               | 22.94               | 22.93                | 24               | 0        |  |  |
| 10              | QPSK       | 1      | 49        | 22.92               | 22.92               | 22.94                |                  |          |  |  |
| 10              | QPSK       | 25     | 0         | 22.91               | 22.91               | 22.92                |                  |          |  |  |
| 10              | QPSK       | 25     | 12        | 22.87               | 22.94               | 22.90                | 24               | 0        |  |  |
| 10              | QPSK       | 25     | 25        | 22.94               | 22.97               | 22.89                |                  |          |  |  |
| 10              | QPSK       | 50     | 0         | 22.89               | 22.87               | 22.91                |                  |          |  |  |
| 10              | HQAM       | 1      | 0         | 22.79               | 22.86               | 22.78                | 24               | 0        |  |  |
| 10              | HQAM       | 1      | 25        | 22.82               | 22.87               | 22.82                |                  |          |  |  |
| 10              | HQAM       | 1      | 49        | 22.89               | 22.86               | 22.71                |                  |          |  |  |
| 10              | HQAM       | 25     | 0         | 22.84               | 22.74               | 22.15                |                  |          |  |  |
| 10              | HQAM       | 25     | 12        | 22.10               | 22.29               | 22.00                |                  |          |  |  |
| 10              | HQAM       | 25     | 25        | 22.18               | 22.23               | 22.25                | 23               | 1        |  |  |
| 10              | HQAM       | 50     | 0         | 22.11               | 22.15               | 22.14                |                  |          |  |  |
| 10              | HQAM       | 1      | 0         | 22.20               | 22.24               | 22.25                |                  |          |  |  |
| 10              | HQAM       | 1      | 25        | 22.22               | 22.29               | 22.32                | 23               | 1        |  |  |
| 10              | HQAM       | 1      | 49        | 22.28               | 22.36               | 22.48                |                  |          |  |  |
| 10              | HQAM       | 25     | 0         | 21.92               | 21.70               | 21.14                |                  |          |  |  |
| 10              | HQAM       | 25     | 12        | 21.13               | 21.18               | 21.16                |                  |          |  |  |
| 10              | HQAM       | 25     | 25        | 21.11               | 21.18               | 21.22                | 22               | 2        |  |  |
| 10              | HQAM       | 50     | 0         | 21.13               | 21.11               | 21.18                |                  |          |  |  |
| 10              | SSBQAM     | 1      | 0         | 19.21               | 19.23               | 19.19                |                  |          |  |  |
| 10              | SSBQAM     | 1      | 25        | 19.32               | 19.27               | 19.31                | 20               | 4        |  |  |
| 10              | SSBQAM     | 1      | 49        | 19.15               | 19.19               | 19.18                |                  |          |  |  |
| 10              | SSBQAM     | 25     | 0         | 19.30               | 19.36               | 19.34                | 20               | 4        |  |  |
| 10              | SSBQAM     | 25     | 12        | 19.28               | 19.25               | 19.24                |                  |          |  |  |
| 10              | SSBQAM     | 25     | 25        | 19.28               | 19.34               | 19.30                |                  |          |  |  |
| 10              | SSBQAM     | 50     | 0         | 19.27               | 19.30               | 19.26                |                  |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                  |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                  |          |  |  |
| 754.5           |            |        |           |                     |                     |                      |                  |          |  |  |
| 5               | QPSK       | 1      | 0         | 22.73               | 22.77               | 22.82                |                  |          |  |  |
| 5               | QPSK       | 1      | 12        | 22.89               | 22.93               | 22.96                | 24               | 0        |  |  |
| 5               | QPSK       | 1      | 24        | 22.84               | 22.84               | 22.84                |                  |          |  |  |
| 5               | QPSK       | 12     | 0         | 22.88               | 22.93               | 22.85                |                  |          |  |  |
| 5               | QPSK       | 12     | 7         | 22.80               | 22.84               | 22.85                | 24               | 0        |  |  |
| 5               | QPSK       | 12     | 13        | 22.72               | 22.86               | 22.78                |                  |          |  |  |
| 5               | QPSK       | 25     | 0         | 22.89               | 22.87               | 22.84                |                  |          |  |  |
| 5               | HQAM       | 1      | 0         | 22.70               | 22.74               | 22.74                | 24               | 0        |  |  |
| 5               | HQAM       | 1      | 12        | 22.77               | 22.82               | 22.77                |                  |          |  |  |
| 5               | HQAM       | 1      | 24        | 22.73               | 22.68               | 22.59                |                  |          |  |  |
| 5               | HQAM       | 12     | 0         | 21.94               | 22.05               | 22.08                |                  |          |  |  |
| 5               | HQAM       | 12     | 7         | 22.16               | 22.07               | 22.11                | 23               | 1        |  |  |
| 5               | HQAM       | 12     | 13        | 22.09               | 22.15               | 22.14                |                  |          |  |  |
| 5               | HQAM       | 25     | 0         | 22.60               | 22.07               | 22.04                |                  |          |  |  |
| 5               | HQAM       | 25     | 12        | 22.08               | 22.29               | 22.14                |                  |          |  |  |
| 5               | HQAM       | 1      | 12        | 22.10               | 22.42               | 22.29                | 23               | 1        |  |  |
| 5               | HQAM       | 1      | 24        | 22.40               | 22.36               | 22.43                |                  |          |  |  |
| 5               | HQAM       | 12     | 0         | 22.07               | 21.08               | 21.10                |                  |          |  |  |
| 5               | HQAM       | 12     | 7         | 21.10               | 21.08               | 21.09                | 22               | 2        |  |  |
| 5               | HQAM       | 12     | 13        | 20.96               | 21.10               | 21.15                |                  |          |  |  |
| 5               | SSBQAM     | 1      | 0         | 19.12               | 19.17               | 19.14                |                  |          |  |  |
| 5               | SSBQAM     | 1      | 12        | 19.21               | 19.32               | 19.23                | 20               | 4        |  |  |
| 5               | SSBQAM     | 1      | 24        | 19.07               | 19.13               | 19.07                |                  |          |  |  |
| 5               | SSBQAM     | 12     | 0         | 19.25               | 19.24               | 19.23                |                  |          |  |  |
| 5               | SSBQAM     | 12     | 7         | 19.28               | 19.26               | 19.25                |                  |          |  |  |
| 5               | SSBQAM     | 12     | 13        | 19.18               | 19.22               | 19.15                | 20               | 4        |  |  |
| 5               | SSBQAM     | 25     | 0         | 19.22               | 19.25               | 19.21                |                  |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                  |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                  |          |  |  |
| 754.5           |            |        |           |                     |                     |                      |                  |          |  |  |
| 3               | QPSK       | 1      | 0         | 22.67               | 22.79               | 22.75                |                  |          |  |  |
| 3               | QPSK       | 1      | 8         | 22.88               | 22.89               | 22.87                | 24               | 0        |  |  |
| 3               | QPSK       | 1      | 14        | 22.83               | 22.81               | 22.88                |                  |          |  |  |
| 3               | QPSK       | 8      | 0         | 22.84               | 22.93               | 22.83                |                  |          |  |  |
| 3               | QPSK       | 8      | 4         | 22.81               | 22.82               | 22.78                | 24               | 0        |  |  |
| 3               | QPSK       | 1      | 8         | 22.72               | 22.88               | 22.81                |                  |          |  |  |
| 3               | QPSK       | 15     | 0         | 22.84               | 22.94               | 22.85                |                  |          |  |  |
| 3               | HQAM       | 1      | 0         | 22.71               | 22.79               | 22.73                | 24               | 0        |  |  |
| 3               | HQAM       | 1      | 8         | 22.79               | 22.82               | 22.75                |                  |          |  |  |
| 3               | HQAM       | 1      | 14        | 22.70               | 22.77               | 22.68                |                  |          |  |  |
| 3               | HQAM       | 8      | 0         | 22.61               | 22.69               | 22.50                |                  |          |  |  |
| 3               | HQAM       | 8      | 4         | 22.69               | 22.10               | 22.17                | 23               | 1        |  |  |
| 3               | HQAM       | 8      | 7         | 22.14               | 22.14               | 22.20                |                  |          |  |  |
| 3               | HQAM       | 15     | 0         | 22.64               | 22.64               | 22.68                |                  |          |  |  |
| 3               | HQAM       | 1      | 0         | 22.68               | 22.31               | 22.13                |                  |          |  |  |
| 3               | HQAM       | 1      | 8         | 22.16               | 22.41               | 22.27                | 23               | 1        |  |  |
| 3               | HQAM       | 1      | 14        | 22.16               | 22.29               | 22.43                |                  |          |  |  |
| 3               | HQAM       | 8      | 0         | 20.97               | 21.07               | 21.08                |                  |          |  |  |
| 3               | HQAM       | 8      | 4         | 21.09               | 21.08               | 21.10                | 22               | 2        |  |  |
| 3               | HQAM       | 15     | 0         | 20.96               | 21.09               | 21.17                |                  |          |  |  |
| 3               | SSBQAM     | 1      | 0         | 19.10               | 19.13               | 19.08                |                  |          |  |  |
| 3               | SSBQAM     | 1      | 8         | 19.26               | 19.32               | 19.22                | 20               | 4        |  |  |
| 3               | SSBQAM     | 1      | 14        | 19.06               | 19.10               | 19.12                |                  |          |  |  |
| 3               | SSBQAM     | 8      | 0         | 19.24               | 19.32               | 19.26                |                  |          |  |  |
| 3               | SSBQAM     | 8      | 4         | 19.13               | 19.13               | 19.19                | 20               | 4        |  |  |
| 3               | SSBQAM     | 8      | 7         | 19.22               | 19.22               | 19.18                |                  |          |  |  |
| 3               | SSBQAM     | 15     | 0         | 19.23               | 19.19               | 19.18                |                  |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                  |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                  |          |  |  |
| 759.7           |            |        |           |                     |                     |                      |                  |          |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.73               | 22.76               | 22.76                |                  |          |  |  |
| 1.4             | QPSK       | 1      | 3         | 22.83               | 22.83               | 22.83                | 24               | 0        |  |  |
| 1.4             | QPSK       | 1      | 5         | 22.83               | 22.84               | 22.87                |                  |          |  |  |
| 1.4             | QPSK       | 3      | 0         | 22.82               | 22.87               | 22.87                |                  |          |  |  |
| 1.4             | QPSK       | 3      | 1         | 22.83               | 22.84               | 22.84                |                  |          |  |  |
| 1.4             | QPSK       | 3      | 3         | 22.81               | 22.86               | 22.83                | 24               | 0        |  |  |
| 1.4             | QPSK       | 6      | 0         | 22.85               | 22.91               | 22.79                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 0         | 22.72               | 22.83               | 22.71                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 3         | 22.77               | 22.82               | 22.78                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 5         | 22.79               | 22.74               | 22.61                |                  |          |  |  |
| 1.4             | HQAM       | 3      | 0         | 22.77               | 22.86               | 22.82                | 24               | 0        |  |  |
| 1.4             | HQAM       | 1      | 22        | 22.86               | 22.93               | 22.84                |                  |          |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.72               | 22.81               | 22.66                |                  |          |  |  |
| 1.4             | HQAM       | 6      | 0         | 22.65               | 22.66               | 22.69                | 23               | 1        |  |  |
| 1.4             | HQAM       | 1      | 0         | 22.67               | 22.30               | 22.22                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 3         | 22.12               | 22.41               | 22.24                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 5         | 22.24               | 22.33               | 22.37                | 23               | 1        |  |  |
| 1.4             | HQAM       | 3      | 0         | 22.91               | 22.12               | 22.04                |                  |          |  |  |
| 1.4             | HQAM       | 3      | 1         | 22.13               | 22.26               | 22.16                |                  |          |  |  |
| 1.4             | HQAM       | 3      | 3         | 22.16               | 22.41               | 22.29                |                  |          |  |  |
| 1.4             | HQAM       | 1      | 0         | 21.67               | 21.01               | 21.10                | 22               | 2        |  |  |
| 1.4             | SSBQAM     | 1      | 0         | 19.13               | 19.15               | 19.08                |                  |          |  |  |
| 1.4             | SSBQAM     | 1      | 3         | 19.26               | 19.31               | 19.22                | 20               | 4        |  |  |
| 1.4             | SSBQAM     | 1      | 5         | 19.04               | 19.13               | 19.07                |                  |          |  |  |
| 1.4             | SSBQAM     | 3      | 0         | 19.20               | 19.32               | 19.22                |                  |          |  |  |
| 1.4             | SSBQAM     | 3      | 1         | 19.14               | 19.16               | 19.12                |                  |          |  |  |
| 1.4             | SSBQAM     | 3      | 3         | 19.22               | 19.25               | 19.23                |                  |          |  |  |
| 1.4             | SSBQAM     | 6      | 0         | 19.25               | 19.25               | 19.19                | 20               | 4        |  |  |

| Band 12_Ant 1   |            |        |           |                     |                     |                      |                    |          |  |  |
|-----------------|------------|--------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Sub | RB Offset | Power Low Ch./Freq. | Power Med Ch./Freq. | Power High Ch./Freq. | Time-up int. (Sec) | MPR (dB) |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 10              | QPSK       | 1      | 0         | 22.71               | 22.71               | 22.78                |                    |          |  |  |
| 10              | QPSK       | 1      | 25        | 22.85               | 22.81               | 22.86                | 24                 | 0        |  |  |
| 10              | QPSK       | 1      | 49        | 22.82               | 22.84               | 22.84                |                    |          |  |  |
| 10              | QPSK       | 25     | 0         | 22.85               | 22.89               | 22.85                |                    |          |  |  |
| 10              | QPSK       | 25     | 12        | 22.80               | 22.86               | 22.80                | 24                 | 0        |  |  |
| 10              | QPSK       | 25     | 25        | 22.77               | 22.83               | 22.77                |                    |          |  |  |
| 10              | QPSK       | 50     | 0         | 22.88               | 22.88               | 22.84                |                    |          |  |  |
| 10              | HQAM       | 1      | 0         | 22.77               | 22.80               | 22.77                | 24                 | 0        |  |  |
| 10              | HQAM       | 1      | 25        | 22.77               | 22.82               | 22.81                |                    |          |  |  |
| 10              | HQAM       | 1      | 49        | 22.81               | 22.77               | 22.82                |                    |          |  |  |
| 10              | HQAM       | 25     | 0         | 21.68               | 21.70               | 21.76                |                    |          |  |  |
| 10              | HQAM       | 25     | 12        | 21.62               | 21.75               | 21.63                |                    |          |  |  |
| 10              | HQAM       | 25     | 25        | 21.78               | 21.82               | 21.86                | 23                 | 1        |  |  |
| 10              | HQAM       | 50     | 0         | 21.78               | 21.72               | 21.81                |                    |          |  |  |
| 10              | HQAM       | 1      | 0         | 21.88               | 21.91               | 21.96                |                    |          |  |  |
| 10              | HQAM       | 1      | 25        | 21.98               | 22.04               | 22.15                | 23                 | 1        |  |  |
| 10              | HQAM       | 1      | 49        | 21.96               | 22.02               | 22.17                |                    |          |  |  |
| 10              | HQAM       | 25     | 0         | 20.98               | 20.71               | 20.72                |                    |          |  |  |
| 10              | HQAM       | 25     | 12        | 20.94               | 20.77               | 20.79                | 22                 | 2        |  |  |
| 10              | HQAM       | 25     | 25        | 20.94               | 20.82               | 20.89                |                    |          |  |  |
| 10              | HQAM       | 50     | 0         | 20.76               | 20.78               | 20.83                |                    |          |  |  |
| 10              | HQAM       | 1      | 0         | 18.99               | 18.99               | 19.07                |                    |          |  |  |
| 10              | HQAM       | 1      | 25        | 19.00               | 19.10               | 19.04                | 20                 | 4        |  |  |
| 10              | HQAM       | 1      | 49        | 19.07               | 19.07               | 19.07                |                    |          |  |  |
| 10              | HQAM       | 25     | 0         | 18.99               | 18.95               | 18.95                |                    |          |  |  |
| 10              | HQAM       | 25     | 12        | 18.88               | 18.88               | 18.88                | 20                 | 4        |  |  |
| 10              | HQAM       | 25     | 25        | 18.95               | 18.95               | 18.95                |                    |          |  |  |
| 10              | HQAM       | 50     | 0         | 18.97               | 18.95               | 18.95                |                    |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 5               | QPSK       | 1      | 0         | 22.67               | 22.62               | 22.63                |                    |          |  |  |
| 5               | QPSK       | 1      | 12        | 22.86               | 22.85               | 22.74                | 24                 | 0        |  |  |
| 5               | QPSK       | 1      | 24        | 22.77               | 22.78               | 22.75                |                    |          |  |  |
| 5               | QPSK       | 12     | 0         | 22.83               | 22.86               | 22.83                |                    |          |  |  |
| 5               | QPSK       | 12     | 7         | 22.73               | 22.75               | 22.69                | 24                 | 0        |  |  |
| 5               | QPSK       | 12     | 13        | 22.70               | 22.73               | 22.69                |                    |          |  |  |
| 5               | QPSK       | 25     | 0         | 22.87               | 22.87               | 22.87                | 24                 | 0        |  |  |
| 5               | HQAM       | 1      | 0         | 22.67               | 22.77               | 22.71                |                    |          |  |  |
| 5               | HQAM       | 1      | 12        | 22.63               | 22.74               | 22.72                | 24                 | 0        |  |  |
| 5               | HQAM       | 1      | 24        | 22.70               | 22.68               | 22.71                |                    |          |  |  |
| 5               | HQAM       | 12     | 0         | 21.60               | 21.66               | 21.69                |                    |          |  |  |
| 5               | HQAM       | 12     | 7         | 21.76               | 21.69               | 21.65                | 23                 | 1        |  |  |
| 5               | HQAM       | 12     | 13        | 21.63               | 21.68               | 21.71                |                    |          |  |  |
| 5               | HQAM       | 25     | 0         | 21.67               | 21.62               | 21.71                |                    |          |  |  |
| 5               | HQAM       | 1      | 0         | 21.62               | 21.61               | 21.61                | 23                 | 1        |  |  |
| 5               | HQAM       | 1      | 12        | 21.55               | 21.59               | 21.59                |                    |          |  |  |
| 5               | HQAM       | 1      | 24        | 21.52               | 21.55               | 22.15                |                    |          |  |  |
| 5               | HQAM       | 12     | 0         | 20.75               | 20.87               | 20.87                | 22                 | 2        |  |  |
| 5               | HQAM       | 12     | 7         | 20.75               | 20.67               | 20.67                |                    |          |  |  |
| 5               | HQAM       | 12     | 13        | 20.74               | 20.77               | 20.80                |                    |          |  |  |
| 5               | HQAM       | 25     | 0         | 19.90               | 19.90               | 19.90                | 20                 | 4        |  |  |
| 5               | HQAM       | 25     | 12        | 19.84               | 19.92               | 19.85                |                    |          |  |  |
| 5               | HQAM       | 25     | 25        | 19.93               | 19.92               | 19.93                |                    |          |  |  |
| 5               | HQAM       | 50     | 0         | 18.93               | 18.92               | 18.96                | 20                 | 4        |  |  |
| 5               | HQAM       | 12     | 7         | 18.78               | 18.85               | 18.83                |                    |          |  |  |
| 5               | HQAM       | 12     | 13        | 18.85               | 18.85               | 18.85                |                    |          |  |  |
| 5               | HQAM       | 25     | 0         | 18.76               | 18.86               | 18.81                | 20                 | 4        |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 3               | QPSK       | 1      | 0         | 22.61               | 22.60               | 22.63                |                    |          |  |  |
| 3               | QPSK       | 1      | 8         | 22.77               | 22.84               | 22.74                | 24                 | 0        |  |  |
| 3               | QPSK       | 1      | 14        | 22.78               | 22.81               | 22.73                |                    |          |  |  |
| 3               | QPSK       | 8      | 0         | 22.83               | 22.83               | 22.83                | 24                 | 0        |  |  |
| 3               | QPSK       | 8      | 4         | 22.75               | 22.75               | 22.75                |                    |          |  |  |
| 3               | QPSK       | 8      | 7         | 22.66               | 22.72               | 22.71                | 24                 | 0        |  |  |
| 3               | HQAM       | 1      | 0         | 22.61               | 22.73               | 22.69                |                    |          |  |  |
| 3               | HQAM       | 1      | 8         | 22.65               | 22.70               | 22.71                | 24                 | 0        |  |  |
| 3               | HQAM       | 1      | 14        | 22.72               | 22.72               | 22.71                |                    |          |  |  |
| 3               | HQAM       | 8      | 0         | 21.62               | 21.61               | 21.61                | 23                 | 1        |  |  |
| 3               | HQAM       | 8      | 4         | 21.71               | 21.64               | 21.67                |                    |          |  |  |
| 3               | HQAM       | 8      | 7         | 21.68               | 21.68               | 21.67                | 23                 | 1        |  |  |
| 3               | HQAM       | 15     | 0         | 21.71               | 21.67               | 21.73                |                    |          |  |  |
| 3               | HQAM       | 1      | 0         | 21.62               | 21.68               | 21.64                | 23                 | 1        |  |  |
| 3               | HQAM       | 1      | 8         | 21.69               | 21.69               | 21.69                |                    |          |  |  |
| 3               | HQAM       | 1      | 14        | 21.53               | 21.52               | 21.51                |                    |          |  |  |
| 3               | HQAM       | 8      | 0         | 20.65               | 20.61               | 20.65                | 22                 | 2        |  |  |
| 3               | HQAM       | 8      | 4         | 20.75               | 20.63               | 20.65                |                    |          |  |  |
| 3               | HQAM       | 8      | 7         | 20.60               | 20.75               | 20.65                |                    |          |  |  |
| 3               | HQAM       | 15     | 0         | 20.73               | 20.76               | 20.80                | 20                 | 4        |  |  |
| 3               | HQAM       | 15     | 8         | 19.78               | 19.82               | 19.86                |                    |          |  |  |
| 3               | HQAM       | 1      | 8         | 18.99               | 19.06               | 19.09                | 20                 | 4        |  |  |
| 3               | HQAM       | 1      | 14        | 18.96               | 19.04               | 18.97                |                    |          |  |  |
| 3               | HQAM       | 8      | 0         | 18.91               | 18.89               | 18.91                | 20                 | 4        |  |  |
| 3               | HQAM       | 8      | 4         | 18.76               | 18.86               | 18.79                |                    |          |  |  |
| 3               | HQAM       | 8      | 7         | 18.85               | 18.85               | 18.85                | 20                 | 4        |  |  |
| 3               | HQAM       | 15     | 0         | 18.83               | 18.87               | 18.91                |                    |          |  |  |
| Channel         |            |        |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz) |            |        |           |                     |                     |                      |                    |          |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.57               | 22.60               | 22.63                |                    |          |  |  |
| 1.4             | QPSK       | 1      | 8         | 22.83               | 22.83               | 22.78                | 24                 | 0        |  |  |
| 1.4             | QPSK       | 1      | 6         | 22.79               | 22.80               | 22.73                |                    |          |  |  |
| 1.4             | QPSK       | 8      | 0         | 22.83               | 22.83               | 22.83                | 24                 | 0        |  |  |
| 1.4             | QPSK       | 3      | 1         | 22.68               | 22.74               | 22.74                |                    |          |  |  |
| 1.4             | QPSK       | 3      | 3         | 22.70               | 22.74               | 22.69                | 24                 | 0        |  |  |
| 1.4             | QPSK       | 3      | 7         | 22.63               | 22.71               | 22.71                |                    |          |  |  |
| 1.4             | HQAM       | 1      | 0         | 22.74               | 22.88               | 22.70                |                    |          |  |  |
| 1.4             | HQAM       | 1      | 3         | 22.67               | 22.73               | 22.75                | 24                 | 0        |  |  |
| 1.4             | HQAM       | 1      | 7         | 22.77               | 22.73               | 22.73                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 0         | 22.66               | 22.59               | 22.70                | 24                 | 0        |  |  |
| 1.4             | HQAM       | 3      | 1         | 22.65               | 22.65               | 22.62                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 7         | 22.72               | 22.61               | 22.72                |                    |          |  |  |
| 1.4             | HQAM       | 6      | 0         | 21.69               | 21.63               | 21.73                | 23                 | 1        |  |  |
| 1.4             | HQAM       | 1      | 0         | 21.78               | 21.79               | 21.84                | 22                 | 2        |  |  |
| 1.4             | HQAM       | 1      | 3         | 21.77               | 21.93               | 21.89                |                    |          |  |  |
| 1.4             | HQAM       | 1      | 7         | 21.86               | 21.75               | 21.81                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 0         | 21.86               | 21.59               | 22.05                | 23                 | 1        |  |  |
| 1.4             | HQAM       | 3      | 1         | 21.70               | 21.73               | 21.73                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 7         | 21.75               | 21.71               | 21.71                |                    |          |  |  |
| 1.4             | HQAM       | 6      | 0         | 21.76               | 21.63               | 21.71                | 22                 | 2        |  |  |
| 1.4             | HQAM       | 6      | 0         | 20.71               | 20.68               | 20.70                | 22                 | 2        |  |  |
| 1.4             | HQAM       | 6      | 3         | 20.76               | 20.86               | 20.85                |                    |          |  |  |
| 1.4             | HQAM       | 6      | 7         | 20.85               | 20.96               | 20.95                |                    |          |  |  |
| 1.4             | HQAM       | 15     | 0         | 19.91               | 19.97               | 19.95                | 20                 | 4        |  |  |
| 1.4             | HQAM       | 1      | 0         | 18.97               | 19.08               | 19.01                |                    |          |  |  |
| 1.4             | HQAM       | 1      | 3         | 18.77               | 18.88               | 18.74                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 0         | 18.78               | 18.81               | 18.82                |                    |          |  |  |
| 1.4             | HQAM       | 3      | 3         | 18.86               | 18.89               | 18.91                | 20                 | 4        |  |  |
| 1.4             | HQAM       | 3      | 7         | 18.92               | 18.92               | 18.92                |                    |          |  |  |

| Band 14_Ant 0   |            |         |           |                     |                     |                      |              |          |   |       |    |   |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------|----------|---|-------|----|---|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up (dB) | MFR (dB) |   |       |    |   |
| Channel         |            |         |           |                     |                     |                      | 2330         |          |   |       |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   |       |    |   |
| 10              | QPSK       | 1       | 0         |                     | 22.69               |                      | 24           | 0        |   |       |    |   |
| 10              | QPSK       | 1       | 25        |                     | 22.71               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 1       | 49        |                     | 22.82               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 25      | 0         |                     | 22.74               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 25      | 12        |                     | 22.73               |                      | 24           | 0        |   |       |    |   |
| 10              | QPSK       | 25      | 25        |                     | 22.69               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 50      | 0         |                     | 22.71               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 0         |                     | 22.64               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 25        |                     | 22.69               |                      | 24           | 0        |   |       |    |   |
| 10              | HQAM       | 1       | 49        |                     | 22.89               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 0         |                     | 22.69               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 12        |                     | 22.09               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 25        |                     | 22.17               |                      | 23           | 1        |   |       |    |   |
| 10              | HQAM       | 50      | 0         |                     | 22.10               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 0         |                     | 22.04               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 25        |                     | 22.05               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 49        |                     | 22.02               |                      | 23           | 1        |   |       |    |   |
| 10              | HQAM       | 25      | 0         |                     | 21.70               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 12        |                     | 21.11               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 25        |                     | 21.11               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 50      | 0         |                     | 21.13               |                      | 22           | 2        |   |       |    |   |
| 10              | SSBQAM     | 1       | 0         |                     | 19.38               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 1       | 25        |                     | 19.31               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 1       | 49        |                     | 19.35               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 25      | 0         |                     | 19.20               |                      | 20           | 4        |   |       |    |   |
| 10              | SSBQAM     | 25      | 12        |                     | 19.23               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 25      | 25        |                     | 19.25               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 50      | 0         |                     | 19.17               |                      |              |          |   |       |    |   |
| Channel         |            |         |           |                     |                     |                      |              |          |   | 2335  |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   | 2335  |    |   |
| 5               | QPSK       | 1       | 0         |                     | 22.61               | 22.61                |              |          |   | 22.64 | 24 | 0 |
| 5               | QPSK       | 1       | 12        |                     | 22.65               | 22.69                | 22.68        |          |   |       |    |   |
| 5               | QPSK       | 1       | 24        |                     | 22.49               | 22.52                | 22.60        |          |   |       |    |   |
| 5               | QPSK       | 12      | 0         |                     | 22.66               | 22.63                | 22.66        |          |   |       |    |   |
| 5               | QPSK       | 12      | 7         |                     | 22.61               | 22.62                | 22.68        | 24       | 0 |       |    |   |
| 5               | QPSK       | 12      | 13        |                     | 22.68               | 22.62                | 22.61        |          |   |       |    |   |
| 5               | QPSK       | 25      | 0         |                     | 22.67               | 22.68                | 22.63        |          |   |       |    |   |
| 5               | HQAM       | 1       | 0         |                     | 22.58               | 22.52                | 22.54        |          |   |       |    |   |
| 5               | HQAM       | 1       | 12        |                     | 22.50               | 22.52                | 22.59        | 24       | 0 |       |    |   |
| 5               | HQAM       | 1       | 24        |                     | 22.62               | 22.65                | 22.65        |          |   |       |    |   |
| 5               | HQAM       | 12      | 0         |                     | 22.64               | 22.64                | 21.98        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 22.63               | 22.10                | 22.02        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 22.10               | 22.10                | 22.13        | 23       | 1 |       |    |   |
| 5               | HQAM       | 25      | 0         |                     | 22.62               | 21.99                | 22.07        |          |   |       |    |   |
| 5               | HQAM       | 1       | 0         |                     | 21.94               | 21.98                | 21.93        |          |   |       |    |   |
| 5               | HQAM       | 1       | 12        |                     | 21.90               | 21.98                | 22.01        |          |   |       |    |   |
| 5               | HQAM       | 1       | 24        |                     | 21.86               | 21.92                | 21.97        | 23       | 1 |       |    |   |
| 5               | HQAM       | 12      | 0         |                     | 21.84               | 21.06                | 20.88        |          |   |       |    |   |
| 5               | HQAM       | 12      | 7         |                     | 21.97               | 21.08                | 21.01        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 21.86               | 20.99                | 20.94        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 21.86               | 20.99                | 21.03        | 22       | 2 |       |    |   |
| 5               | HQAM       | 25      | 0         |                     | 21.86               | 20.99                | 21.03        |          |   |       |    |   |
| 5               | SSBQAM     | 1       | 0         |                     | 19.20               | 19.30                | 19.35        |          |   |       |    |   |
| 5               | SSBQAM     | 1       | 12        |                     | 19.25               | 19.28                | 19.22        |          |   |       |    |   |
| 5               | SSBQAM     | 1       | 24        |                     | 19.23               | 19.26                | 19.24        | 20       | 4 |       |    |   |
| 5               | SSBQAM     | 12      | 0         |                     | 19.13               | 19.12                | 19.11        |          |   |       |    |   |
| 5               | SSBQAM     | 12      | 7         |                     | 19.17               | 19.13                | 19.16        |          |   |       |    |   |
| 5               | SSBQAM     | 12      | 13        |                     | 19.19               | 19.15                | 19.16        |          |   |       |    |   |
| 5               | SSBQAM     | 25      | 0         |                     | 19.10               | 19.06                | 19.06        | 20       | 4 |       |    |   |

| Band 14_Ant 1   |            |         |           |                     |                     |                      |              |          |   |       |    |   |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------|----------|---|-------|----|---|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up (dB) | MFR (dB) |   |       |    |   |
| Channel         |            |         |           |                     |                     |                      | 2330         |          |   |       |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   |       |    |   |
| 10              | QPSK       | 1       | 0         |                     | 22.48               |                      | 24           | 0        |   |       |    |   |
| 10              | QPSK       | 1       | 25        |                     | 22.58               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 1       | 49        |                     | 22.53               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 25      | 0         |                     | 22.67               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 25      | 12        |                     | 22.54               |                      | 24           | 0        |   |       |    |   |
| 10              | QPSK       | 25      | 25        |                     | 22.51               |                      |              |          |   |       |    |   |
| 10              | QPSK       | 50      | 0         |                     | 22.64               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 0         |                     | 22.49               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 25        |                     | 22.48               |                      | 24           | 0        |   |       |    |   |
| 10              | HQAM       | 1       | 49        |                     | 22.45               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 0         |                     | 21.77               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 12        |                     | 21.78               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 25        |                     | 21.85               |                      | 23           | 1        |   |       |    |   |
| 10              | HQAM       | 50      | 0         |                     | 21.72               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 0         |                     | 22.04               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 25        |                     | 22.17               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 1       | 49        |                     | 21.99               |                      | 23           | 1        |   |       |    |   |
| 10              | HQAM       | 25      | 0         |                     | 20.73               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 12        |                     | 20.76               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 25      | 25        |                     | 20.82               |                      |              |          |   |       |    |   |
| 10              | HQAM       | 50      | 0         |                     | 20.72               |                      | 22           | 2        |   |       |    |   |
| 10              | SSBQAM     | 1       | 0         |                     | 19.05               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 1       | 49        |                     | 19.06               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 1       | 49        |                     | 19.03               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 25      | 0         |                     | 18.97               |                      | 20           | 4        |   |       |    |   |
| 10              | SSBQAM     | 25      | 12        |                     | 18.98               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 25      | 25        |                     | 18.93               |                      |              |          |   |       |    |   |
| 10              | SSBQAM     | 50      | 0         |                     | 18.88               |                      |              |          |   |       |    |   |
| Channel         |            |         |           |                     |                     |                      |              |          |   | 2335  |    |   |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   | 2335  |    |   |
| 5               | QPSK       | 1       | 0         |                     | 22.41               | 22.36                |              |          |   | 22.39 | 24 | 0 |
| 5               | QPSK       | 1       | 12        |                     | 22.55               | 22.51                | 22.50        |          |   |       |    |   |
| 5               | QPSK       | 1       | 24        |                     | 22.43               | 22.42                | 22.41        |          |   |       |    |   |
| 5               | QPSK       | 12      | 0         |                     | 22.50               | 22.64                | 22.53        |          |   |       |    |   |
| 5               | QPSK       | 12      | 7         |                     | 22.45               | 22.48                | 22.51        | 24       | 0 |       |    |   |
| 5               | QPSK       | 12      | 13        |                     | 22.42               | 22.42                | 22.42        |          |   |       |    |   |
| 5               | QPSK       | 25      | 0         |                     | 22.45               | 22.42                | 22.43        |          |   |       |    |   |
| 5               | HQAM       | 1       | 0         |                     | 22.37               | 22.37                | 22.46        |          |   |       |    |   |
| 5               | HQAM       | 1       | 12        |                     | 22.40               | 22.38                | 22.45        | 24       | 0 |       |    |   |
| 5               | HQAM       | 1       | 24        |                     | 22.38               | 22.34                | 22.38        |          |   |       |    |   |
| 5               | HQAM       | 12      | 0         |                     | 21.71               | 21.67                | 21.65        |          |   |       |    |   |
| 5               | HQAM       | 12      | 7         |                     | 21.73               | 21.66                | 21.69        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 21.77               | 21.74                | 21.77        | 23       | 1 |       |    |   |
| 5               | HQAM       | 25      | 0         |                     | 21.66               | 21.67                | 21.64        |          |   |       |    |   |
| 5               | HQAM       | 1       | 0         |                     | 21.92               | 21.94                | 21.98        |          |   |       |    |   |
| 5               | HQAM       | 1       | 12        |                     | 22.10               | 22.08                | 22.10        |          |   |       |    |   |
| 5               | HQAM       | 1       | 24        |                     | 21.97               | 21.93                | 21.91        | 23       | 1 |       |    |   |
| 5               | HQAM       | 12      | 0         |                     | 20.89               | 20.88                | 20.82        |          |   |       |    |   |
| 5               | HQAM       | 12      | 7         |                     | 20.70               | 20.65                | 20.64        |          |   |       |    |   |
| 5               | HQAM       | 12      | 13        |                     | 20.76               | 20.70                | 20.72        |          |   |       |    |   |
| 5               | HQAM       | 25      | 0         |                     | 20.65               | 20.61                | 20.69        | 22       | 2 |       |    |   |
| 5               | SSBQAM     | 1       | 0         |                     | 18.90               | 19.00                | 19.06        |          |   |       |    |   |
| 5               | SSBQAM     | 1       | 12        |                     | 18.97               | 19.01                | 19.00        |          |   |       |    |   |
| 5               | SSBQAM     | 1       | 24        |                     | 18.93               | 18.92                | 18.96        |          |   |       |    |   |
| 5               | SSBQAM     | 12      | 0         |                     | 18.80               | 18.90                | 18.85        | 20       | 4 |       |    |   |
| 5               | SSBQAM     | 12      | 7         |                     | 18.86               | 18.83                | 18.83        |          |   |       |    |   |
| 5               | SSBQAM     | 12      | 13        |                     | 18.83               | 18.85                | 18.88        |          |   |       |    |   |
| 5               | SSBQAM     | 25      | 0         |                     | 18.78               | 18.85                | 18.80        |          |   |       |    |   |

| Band 17_Ant 0   |            |         |           |                     |                     |                      |               |          |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up (mHz) | MFR (dB) |  |
| Channel         |            |         |           |                     |                     |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |               |          |  |
| 2370            |            |         |           |                     |                     |                      |               |          |  |
| 2370            |            |         |           |                     |                     |                      |               |          |  |
| 2380            |            |         |           |                     |                     |                      |               |          |  |
| 10              | QPSK       | 1       | 0         | 22.72               | 22.71               | 22.75                | 24            | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.61               | 22.66               | 22.62                |               |          |  |
| 10              | QPSK       | 1       | 49        | 22.63               | 22.69               | 22.65                |               |          |  |
| 10              | QPSK       | 25      | 0         | 22.50               | 22.64               | 22.52                |               |          |  |
| 10              | QPSK       | 25      | 12        | 22.63               | 22.61               | 22.60                | 24            | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.60               | 22.66               | 22.68                |               |          |  |
| 10              | QPSK       | 50      | 0         | 22.65               | 22.61               | 22.66                |               |          |  |
| 10              | HQAM       | 1       | 0         | 22.71               | 22.66               | 22.63                |               |          |  |
| 10              | HQAM       | 1       | 25        | 22.62               | 22.64               | 22.65                | 24            | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.69               | 22.64               | 22.65                |               |          |  |
| 10              | HQAM       | 25      | 0         | 22.61               | 22.63               | 22.65                | 23            | 1        |  |
| 10              | HQAM       | 25      | 12        | 22.63               | 22.61               | 22.62                |               |          |  |
| 10              | HQAM       | 25      | 25        | 22.63               | 22.65               | 22.66                |               |          |  |
| 10              | HQAM       | 50      | 0         | 22.67               | 22.68               | 22.67                |               |          |  |
| 10              | QPSK       | 1       | 0         | 22.72               | 22.73               | 22.73                | 23            | 1        |  |
| 10              | QPSK       | 1       | 25        | 22.52               | 22.55               | 22.57                |               |          |  |
| 10              | HQAM       | 1       | 49        | 22.36               | 22.40               | 22.32                | 20            | 2        |  |
| 10              | HQAM       | 1       | 25        | 22.15               | 22.10               | 22.07                |               |          |  |
| 10              | HQAM       | 1       | 49        | 22.15               | 22.15               | 22.15                |               |          |  |
| 10              | HQAM       | 25      | 0         | 21.14               | 21.13               | 21.13                |               |          |  |
| 10              | QPSK       | 1       | 0         | 21.06               | 21.07               | 21.07                | 20            | 4        |  |
| 10              | QPSK       | 1       | 25        | 19.11               | 19.13               | 19.13                |               |          |  |
| 10              | QPSK       | 1       | 25        | 19.39               | 19.48               | 19.42                | 20            | 4        |  |
| 10              | QPSK       | 1       | 49        | 19.39               | 19.39               | 19.39                |               |          |  |
| 10              | QPSK       | 25      | 0         | 19.13               | 19.15               | 19.15                |               |          |  |
| 10              | QPSK       | 25      | 12        | 19.13               | 19.14               | 19.12                |               |          |  |
| 10              | QPSK       | 25      | 25        | 19.13               | 19.13               | 19.13                | 20            | 4        |  |
| 10              | QPSK       | 50      | 0         | 19.09               | 19.14               | 19.10                |               |          |  |
| Channel         |            |         |           |                     |                     |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |               |          |  |
| 2375            |            |         |           |                     |                     |                      |               |          |  |
| 2375            |            |         |           |                     |                     |                      |               |          |  |
| 2385            |            |         |           |                     |                     |                      |               |          |  |
| 5               | QPSK       | 12      | 0         | 22.63               | 22.61               | 22.63                | 22            | 1        |  |
| 5               | QPSK       | 1       | 12        | 22.79               | 22.89               | 22.87                |               |          |  |
| 5               | QPSK       | 1       | 24        | 22.80               | 22.80               | 22.82                |               |          |  |
| 5               | QPSK       | 12      | 12        | 22.78               | 22.88               | 22.80                |               |          |  |
| 5               | QPSK       | 12      | 7         | 22.72               | 22.82               | 22.77                | 24            | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.78               | 22.75               | 22.69                |               |          |  |
| 5               | QPSK       | 12      | 14        | 22.73               | 22.85               | 22.81                |               |          |  |
| 5               | QPSK       | 1       | 0         | 22.65               | 22.60               | 22.73                |               |          |  |
| 5               | HQAM       | 1       | 12        | 22.80               | 22.84               | 22.85                | 24            | 0        |  |
| 5               | HQAM       | 1       | 49        | 22.80               | 22.80               | 22.80                |               |          |  |
| 5               | HQAM       | 12      | 0         | 21.97               | 21.92               | 21.97                | 22            | 2        |  |
| 5               | HQAM       | 12      | 12        | 22.05               | 22.09               | 22.08                |               |          |  |
| 5               | HQAM       | 12      | 13        | 22.05               | 22.05               | 22.05                |               |          |  |
| 5               | HQAM       | 25      | 0         | 21.97               | 22.01               | 22.01                |               |          |  |
| 5               | QPSK       | 1       | 0         | 22.10               | 22.16               | 22.09                | 23            | 1        |  |
| 5               | QPSK       | 1       | 12        | 22.27               | 22.28               | 22.24                |               |          |  |
| 5               | QPSK       | 1       | 24        | 22.32               | 22.30               | 22.17                |               |          |  |
| 5               | QPSK       | 12      | 7         | 22.15               | 22.08               | 22.02                |               |          |  |
| 5               | HQAM       | 12      | 7         | 21.05               | 21.04               | 21.05                | 22            | 0        |  |
| 5               | HQAM       | 12      | 13        | 21.05               | 21.04               | 21.03                |               |          |  |
| 5               | HQAM       | 12      | 14        | 21.06               | 21.07               | 21.06                | 20            | 4        |  |
| 5               | HQAM       | 25      | 0         | 20.97               | 20.98               | 20.97                |               |          |  |
| 5               | HQAM       | 25      | 12        | 20.98               | 21.02               | 20.99                |               |          |  |
| 5               | HQAM       | 50      | 0         | 20.98               | 21.03               | 20.98                |               |          |  |
| 5               | QPSK       | 12      | 12        | 19.06               | 19.12               | 19.06                | 20            | 4        |  |
| 5               | QPSK       | 12      | 13        | 19.06               | 19.06               | 19.06                |               |          |  |
| 5               | QPSK       | 12      | 14        | 19.06               | 19.06               | 19.06                |               |          |  |
| 5               | QPSK       | 25      | 0         | 19.01               | 19.04               | 19.05                |               |          |  |



| Band 25_Ant 0   |            |         |           |                       |                        |                        |                    |          |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|--------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Time-up Int. (Sec) | MPE (dB) |  |
| Channel         |            |         |           |                       |                        |                        |                    |          |  |
| Frequency (MHz) |            |         |           | 26140                 | 26140                  | 26680                  |                    |          |  |
| 20              | QPSK       | 1       | 0         | 19.59                 | 19.73                  | 19.88                  |                    |          |  |
| 20              | QPSK       | 1       | 49        | 19.72                 | 19.87                  | 19.92                  | 20.9               | 0        |  |
| 20              | QPSK       | 1       | 99        | 19.85                 | 19.98                  | 20.00                  |                    |          |  |
| 20              | QPSK       | 50      | 0         | 19.86                 | 19.82                  | 19.89                  |                    |          |  |
| 20              | QPSK       | 50      | 24        | 19.82                 | 19.78                  | 19.87                  | 20.9               | 0        |  |
| 20              | QPSK       | 50      | 50        | 19.80                 | 19.76                  | 19.82                  |                    |          |  |
| 20              | QPSK       | 100     | 0         | 19.88                 | 19.80                  | 19.88                  |                    |          |  |
| 20              | 16QAM      | 1       | 0         | 19.59                 | 19.81                  | 19.83                  | 20.9               | 0        |  |
| 20              | 16QAM      | 1       | 49        | 19.82                 | 19.78                  | 19.81                  |                    |          |  |
| 20              | 16QAM      | 1       | 99        | 19.86                 | 19.85                  | 19.89                  |                    |          |  |
| 20              | 16QAM      | 50      | 0         | 19.87                 | 19.84                  | 19.73                  |                    |          |  |
| 20              | 16QAM      | 50      | 24        | 19.86                 | 19.82                  | 19.72                  | 20.9               | 0        |  |
| 20              | 16QAM      | 50      | 50        | 19.85                 | 19.79                  | 19.82                  |                    |          |  |
| 20              | 16QAM      | 100     | 0         | 19.88                 | 19.75                  | 19.85                  |                    |          |  |
| 20              | 16QAM      | 1       | 0         | 19.80                 | 19.74                  | 19.81                  |                    |          |  |
| 20              | 16QAM      | 1       | 49        | 19.80                 | 19.86                  | 19.59                  | 20.9               | 0        |  |
| 20              | 16QAM      | 5       | 99        | 19.71                 | 19.74                  | 19.89                  |                    |          |  |
| 20              | 16QAM      | 50      | 0         | 19.82                 | 19.82                  | 19.59                  | 20.9               | 0        |  |
| 20              | 16QAM      | 50      | 24        | 19.89                 | 19.82                  | 19.89                  |                    |          |  |
| 20              | 16QAM      | 50      | 50        | 19.84                 | 19.82                  | 19.89                  |                    |          |  |
| 20              | 16QAM      | 100     | 0         | 19.84                 | 19.75                  | 19.85                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 1       | 99        | 19.57                 | 19.51                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 0         | 19.48                 | 19.53                  | 19.45                  |                    |          |  |
| 20              | 256QAM     | 50      | 24        | 19.48                 | 19.47                  | 19.39                  | 20                 | 0.9      |  |
| 20              | 256QAM     | 50      | 50        | 19.45                 | 19.47                  | 19.39                  |                    |          |  |
| 20              | 256QAM     | 100     | 0         | 19.48                 | 19.38                  | 19.28                  |                    |          |  |
| 20              | 256QAM     | 1       | 0         | 19.38                 | 19.58                  | 19.48                  |                    |          |  |
| 20              | 256QAM     | 1       | 49        | 19.59                 | 19.59                  | 19.48                  | 20                 | 0.9      |  |
| 20              | 2          |         |           |                       |                        |                        |                    |          |  |



| Band 26(FCC)_Ant 1 |            |           |              |                           |                              |                            |                           |             |  |  |
|--------------------|------------|-----------|--------------|---------------------------|------------------------------|----------------------------|---------------------------|-------------|--|--|
| WV<br>(MHz)        | Modulation | RB<br>Bin | RB<br>Offset | Power<br>Low<br>Ch / Freq | Power<br>Middle<br>Ch / Freq | Power<br>High<br>Ch / Freq | Time-up<br>limit<br>(sec) | MPR<br>(dB) |  |  |
| Channel            |            |           |              | 26715                     | 26815                        | 26915                      |                           |             |  |  |
| Frequency (MHz)    |            |           |              | 813.5                     | 813.5                        | 813.5                      |                           |             |  |  |
| 15                 | QPSK       | 1         | 0            | 22.27                     | 22.27                        | 22.28                      |                           |             |  |  |
| 15                 | QPSK       | 1         | 37           | 22.44                     | 22.66                        | 22.80                      | 24                        | 0           |  |  |
| 15                 | QPSK       | 1         | 74           | 22.34                     | 22.56                        | 22.65                      |                           |             |  |  |
| 15                 | QPSK       | 36        | 0            | 22.54                     | 22.64                        | 22.57                      |                           |             |  |  |
| 15                 | QPSK       | 36        | 20           | 22.48                     | 22.60                        | 22.49                      | 24                        | 0           |  |  |
| 15                 | QPSK       | 36        | 39           | 22.32                     | 22.58                        | 22.55                      |                           |             |  |  |
| 15                 | QPSK       | 75        | 0            | 22.49                     | 22.67                        | 22.51                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 0            | 22.26                     | 22.20                        | 22.47                      | 24                        | 0           |  |  |
| 15                 | HQDM       | 1         | 37           | 22.32                     | 22.49                        | 22.43                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 74           | 22.38                     | 22.31                        | 22.41                      |                           |             |  |  |
| 15                 | HQDM       | 36        | 0            | 21.60                     | 21.19                        | 21.34                      |                           |             |  |  |
| 15                 | HQDM       | 36        | 20           | 21.00                     | 21.28                        | 21.41                      |                           |             |  |  |
| 15                 | HQDM       | 36        | 39           | 21.11                     | 21.33                        | 21.37                      | 23                        | 1           |  |  |
| 15                 | HQDM       | 75        | 0            | 21.11                     | 21.26                        | 21.31                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 0            | 21.16                     | 21.26                        | 21.40                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 37           | 21.24                     | 21.41                        | 21.54                      | 23                        | 1           |  |  |
| 15                 | HQDM       | 1         | 74           | 21.21                     | 21.46                        | 21.30                      |                           |             |  |  |
| 15                 | HQDM       | 36        | 0            | 20.30                     | 20.17                        | 20.36                      |                           |             |  |  |
| 15                 | HQDM       | 36        | 20           | 20.08                     | 20.25                        | 20.35                      | 22                        | 2           |  |  |
| 15                 | HQDM       | 36        | 39           | 20.09                     | 20.30                        | 20.38                      |                           |             |  |  |
| 15                 | HQDM       | 75        | 0            | 20.09                     | 20.29                        | 20.32                      |                           |             |  |  |
| 15                 | SSQDM      | 1         | 0            | 18.30                     | 18.32                        | 18.29                      |                           |             |  |  |
| 15                 | SSQDM      | 1         | 37           | 18.26                     | 18.56                        | 18.52                      | 20                        | 4           |  |  |
| 15                 | SSQDM      | 1         | 74           | 18.73                     | 18.72                        | 18.64                      |                           |             |  |  |
| 15                 | SSQDM      | 36        | 0            | 18.27                     | 18.35                        | 18.32                      |                           |             |  |  |
| 15                 | SSQDM      | 36        | 20           | 18.38                     | 18.44                        | 18.42                      | 20                        | 4           |  |  |
| 15                 | SSQDM      | 36        | 39           | 18.43                     | 18.65                        | 18.36                      |                           |             |  |  |
| 15                 | SSQDM      | 75        | 0            | 18.41                     | 18.48                        | 18.42                      |                           |             |  |  |
| Channel            |            |           |              | 26740                     | 26840                        | 26940                      |                           |             |  |  |
| Frequency (MHz)    |            |           |              | 814                       | 813.5                        | 814                        | Time-up<br>limit<br>(sec) | MPR<br>(dB) |  |  |
| 15                 | QPSK       | 1         | 0            | 22.18                     | 22.27                        | 22.51                      |                           |             |  |  |
| 15                 | QPSK       | 1         | 25           | 22.41                     | 22.63                        | 22.54                      | 24                        | 0           |  |  |
| 15                 | QPSK       | 1         | 49           | 22.34                     | 22.47                        | 22.56                      |                           |             |  |  |
| 15                 | QPSK       | 12        | 0            | 22.43                     | 22.61                        | 22.51                      |                           |             |  |  |
| 15                 | QPSK       | 25        | 12           | 22.39                     | 22.52                        | 22.38                      | 24                        | 0           |  |  |
| 15                 | QPSK       | 25        | 25           | 22.31                     | 22.47                        | 22.43                      |                           |             |  |  |
| 15                 | QPSK       | 50        | 0            | 22.43                     | 22.04                        | 22.43                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 0            | 22.14                     | 22.16                        | 22.35                      | 24                        | 0           |  |  |
| 15                 | HQDM       | 1         | 25           | 22.22                     | 22.39                        | 22.39                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 49           | 22.30                     | 22.28                        | 22.36                      |                           |             |  |  |
| 15                 | HQDM       | 25        | 0            | 21.66                     | 21.10                        | 21.28                      |                           |             |  |  |
| 15                 | HQDM       | 25        | 12           | 21.00                     | 21.20                        | 21.34                      |                           |             |  |  |
| 15                 | HQDM       | 25        | 25           | 21.03                     | 21.22                        | 21.31                      | 23                        | 1           |  |  |
| 15                 | HQDM       | 50        | 0            | 21.67                     | 21.14                        | 21.19                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 0            | 21.13                     | 21.29                        | 21.31                      |                           |             |  |  |
| 15                 | HQDM       | 1         | 25           | 21.14                     | 21.31                        | 21.53                      | 23                        | 1           |  |  |
| 15                 | HQDM       | 49        | 0            | 21.16                     | 21.36                        | 21.22                      |                           |             |  |  |
| 15                 | HQDM       | 25        | 0            | 20.60                     | 20.06                        | 20.32                      | 22                        | 2           |  |  |
| 15                 | HQDM       | 25        | 12           | 20.60                     | 20.16                        | 20.34                      |                           |             |  |  |
| 15                 | HQDM       | 25        | 25           | 20.62                     | 20.21                        | 20.39                      |                           |             |  |  |
| 15                 | HQDM       | 50        | 0            | 20.62                     | 20.23                        | 20.25                      |                           |             |  |  |
| 15                 | SSQDM      | 1         | 0            | 18.21                     | 18.23                        | 18.19                      |                           |             |  |  |
| 15                 | SSQDM      | 1         | 49           | 18.43                     | 18.60                        | 18.40                      | 20                        | 4           |  |  |
| 15                 | SSQDM      | 1         | 50           | 18.54                     | 18.65                        | 18.55                      |                           |             |  |  |
| 15                 | SSQDM      | 25        | 0            | 18.20                     | 18.29                        | 18.22                      |                           |             |  |  |
| 15                 | SSQDM      | 25        | 12           | 18.27                     | 18.34                        | 18.24                      | 20                        | 4           |  |  |
| 15                 | SSQDM      | 25        | 25           | 18.31                     | 18.36                        | 18.33                      |                           |             |  |  |
| 15                 | SSQDM      | 50        | 0            | 18.38                     | 18.41                        | 18.39                      |                           |             |  |  |
| Channel            |            |           |              | 26775                     | 26875                        | 26975                      |                           |             |  |  |
| Frequency (MHz)    |            |           |              | 814.5                     | 813.5                        | 814.5                      | Time-up<br>limit<br>(sec) | MPR<br>(dB) |  |  |
| 5                  | QPSK       | 1         | 0            | 22.23                     | 22.30                        | 22.51                      |                           |             |  |  |
| 5                  | QPSK       | 1         | 12           | 22.32                     | 22.56                        | 22.52                      | 24                        | 0           |  |  |
| 5                  | QPSK       | 1         | 24           | 22.20                     | 22.45                        | 22.43                      |                           |             |  |  |
| 5                  | QPSK       | 12        | 0            | 22.43                     | 22.61                        | 22.51                      |                           |             |  |  |
| 5                  | QPSK       | 12        | 7            | 22.37                     | 22.49                        | 22.49                      | 24                        | 0           |  |  |
| 5                  | QPSK       | 12        | 13           | 22.20                     | 22.47                        | 22.43                      |                           |             |  |  |
| 5                  | QPSK       | 25        | 0            | 22.38                     | 22.45                        | 22.46                      |                           |             |  |  |
| 5                  | HQDM       | 1         | 0            | 22.23                     | 22.15                        | 22.44                      | 24                        | 0           |  |  |
| 5                  | HQDM       | 1         | 12           | 22.32                     | 22.43                        | 22.32                      |                           |             |  |  |
| 5                  | HQDM       | 1         | 24           | 22.35                     | 22.19                        | 22.37                      |                           |             |  |  |
| 5                  | HQDM       | 12        | 0            | 21.60                     | 21.11                        | 21.30                      |                           |             |  |  |
| 5                  | HQDM       | 12        | 7            | 21.00                     | 21.18                        | 21.38                      |                           |             |  |  |
| 5                  | HQDM       | 12        | 13           | 21.01                     | 21.21                        | 21.34                      | 23                        | 1           |  |  |
| 5                  | HQDM       | 25        | 0            | 21.63                     | 21.23                        | 21.21                      |                           |             |  |  |
| 5                  | HQDM       | 1         | 0            | 21.12                     | 21.32                        | 21.31                      |                           |             |  |  |
| 5                  | HQDM       | 1         | 12           | 21.21                     | 21.30                        | 21.57                      | 23                        | 1           |  |  |
| 5                  | HQDM       | 1         | 24           | 21.15                     | 21.36                        | 21.29                      |                           |             |  |  |
| 5                  | HQDM       | 12        | 0            | 20.64                     | 20.05                        | 20.27                      |                           |             |  |  |
| 5                  | HQDM       | 12        | 7            | 20.61                     | 20.16                        | 20.33                      | 22                        | 2           |  |  |
| 5                  | HQDM       | 12        | 13           | 20.66                     | 20.24                        | 20.39                      |                           |             |  |  |
| 5                  | HQDM       | 25        | 0            | 20.61                     | 20.23                        | 20.22                      |                           |             |  |  |
| 5                  | SSQDM      | 1         | 0            | 18.20                     | 18.28                        | 18.25                      |                           |             |  |  |
| 5                  | SSQDM      | 1         | 12           | 18.46                     | 18.64                        | 18.44                      | 20                        | 4           |  |  |
| 5                  | SSQDM      | 1         | 24           | 18.53                     | 18.62                        | 18.54                      |                           |             |  |  |
| 5                  | SSQDM      | 12        | 0            | 18.18                     | 18.31                        | 18.24                      |                           |             |  |  |
| 5                  | SSQDM      | 12        | 7            | 18.26                     | 18.34                        | 18.26                      | 20                        | 4           |  |  |
| 5                  | SSQDM      | 12        | 13           | 18.30                     | 18.36                        | 18.28                      |                           |             |  |  |
| 5                  | SSQDM      | 25        | 0            | 18.35                     | 18.39                        | 18.39                      |                           |             |  |  |
| Channel            |            |           |              | 26795                     | 26895                        | 26995                      |                           |             |  |  |
| Frequency (MHz)    |            |           |              | 815.5                     | 813.5                        | 815.5                      | Time-up<br>limit<br>(sec) | MPR<br>(dB) |  |  |
| 3                  | QPSK       | 1         | 0            | 22.21                     | 22.34                        | 22.57                      |                           |             |  |  |
| 3                  | QPSK       | 1         | 3            | 22.35                     | 22.63                        | 22.62                      | 24                        | 0           |  |  |
| 3                  | QPSK       | 1         | 14           | 22.22                     | 22.45                        | 22.44                      |                           |             |  |  |
| 3                  | QPSK       | 6         | 0            | 22.48                     | 22.61                        | 22.48                      |                           |             |  |  |
| 3                  | QPSK       | 6         | 4            | 22.42                     | 22.61                        | 22.38                      | 24                        | 0           |  |  |
| 3                  | QPSK       | 6         | 7            | 22.20                     | 22.69                        | 22.48                      |                           |             |  |  |
| 3                  | QPSK       | 15        | 0            | 22.43                     | 22.62                        | 22.43                      |                           |             |  |  |
| 3                  | HQDM       | 1         | 0            | 22.15                     | 22.12                        | 22.40                      | 24                        | 0           |  |  |
| 3                  | HQDM       | 1         | 8            | 22.28                     | 22.37                        | 22.38                      |                           |             |  |  |
| 3                  | HQDM       | 1         | 14           | 22.31                     | 22.27                        | 22.34                      |                           |             |  |  |
| 3                  | HQDM       | 6         | 0            | 21.62                     | 21.14                        | 21.25                      |                           |             |  |  |
| 3                  | HQDM       | 6         | 4            | 21.03                     | 21.18                        | 21.33                      |                           |             |  |  |
| 3                  | HQDM       | 6         | 7            | 21.04                     | 21.23                        | 21.29                      | 23                        | 1           |  |  |
| 3                  | HQDM       | 15        | 0            | 21.66                     | 21.18                        | 21.28                      |                           |             |  |  |
| 3                  | HQDM       | 1         | 0            | 21.10                     | 21.28                        | 21.33                      |                           |             |  |  |
| 3                  | HQDM       | 1         | 8            | 21.18                     | 21.32                        | 21.53                      | 23                        | 1           |  |  |
| 3                  | HQDM       | 14        | 0            | 21.14                     | 21.37                        | 21.26                      |                           |             |  |  |
| 3                  | HQDM       | 6         | 0            | 20.65                     | 20.14                        | 20.29                      |                           |             |  |  |
| 3                  | HQDM       | 6         | 4            | 20.69                     | 20.22                        | 20.30                      | 22                        | 2           |  |  |
| 3                  | HQDM       | 1         | 7            | 20.65                     | 20.25                        | 20.28                      |                           |             |  |  |
| 3                  | HQDM       | 15        | 0            | 20.61                     | 20.25                        | 20.23                      |                           |             |  |  |
| 3                  | SSQDM      | 1         | 0            | 18.27                     | 18.27                        | 18.21                      |                           |             |  |  |
| 3                  | SSQDM      | 1         | 8            | 18.40                     | 18.60                        | 18.40                      | 20                        | 4           |  |  |
| 3                  | SSQDM      | 1         | 14           | 18.50                     | 18.67                        | 18.58                      |                           |             |  |  |
| 3                  | SSQDM      | 6         | 0            | 18.24                     | 18.31                        | 18.26                      |                           |             |  |  |
| 3                  | SSQDM      | 6         | 4            | 18.27                     | 18.32                        | 18.32                      | 20                        | 4           |  |  |
| 3                  | SSQDM      | 6         | 7            | 18.30                     | 18.37                        | 18.30                      |                           |             |  |  |
| 3                  | SSQDM      | 15        | 0            | 18.31                     | 18.37                        | 18.37                      |                           |             |  |  |
| Channel            |            |           |              | 26827                     | 26925                        | 27023                      |                           |             |  |  |
| Frequency (MHz)    |            |           |              | 814.7                     | 813.5                        | 815.3                      | Time-up<br>limit<br>(sec) | MPR<br>(dB) |  |  |
| 1.4                | QPSK       | 1         | 0            | 22.17                     | 22.31                        | 22.55                      |                           |             |  |  |
| 1.4                | QPSK       | 1         | 3            | 22.35                     | 22.64                        | 22.61                      | 24                        | 0           |  |  |
| 1.4                | QPSK       | 1         | 5            | 22.27                     | 22.45                        | 22.51                      |                           |             |  |  |
| 1.4                | QPSK       | 3         | 0            | 22.44                     | 22.65                        | 22.47                      |                           |             |  |  |
| 1.4                | QPSK       | 3         | 1            | 22.45                     | 22.60                        | 22.44                      |                           |             |  |  |
| 1.4                | QPSK       | 3         | 3            | 22.20                     | 22.53                        | 22.48                      |                           |             |  |  |
| 1.4                | QPSK       | 6         | 0            | 22.37                     | 22.63                        | 22.58                      | 24                        | 0           |  |  |
| 1.4                | HQDM       | 1         | 0            | 22.23                     | 22.17                        | 22.36                      |                           |             |  |  |
| 1.4                | HQDM       | 1         | 3            | 22.28                     | 22.40                        | 22.33                      |                           |             |  |  |
| 1.4                | HQDM       | 1         | 5            | 22.28                     | 22.43                        | 22.38                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 0            | 22.22                     | 22.31                        | 22.40                      | 24                        | 0           |  |  |
| 1.4                | HQDM       | 3         | 1            | 22.37                     | 22.60                        | 22.51                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 3            | 22.22                     | 22.51                        | 22.52                      |                           |             |  |  |
| 1.4                | HQDM       | 6         | 0            | 21.63                     | 21.21                        | 21.27                      | 23                        | 1           |  |  |
| 1.4                | HQDM       | 6         | 1            | 21.04                     | 21.30                        | 21.38                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 0            | 21.21                     | 21.34                        | 21.42                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 1            | 21.16                     | 21.42                        | 21.18                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 3            | 21.13                     | 21.27                        | 21.38                      |                           |             |  |  |
| 1.4                | HQDM       | 6         | 0            | 21.00                     | 21.23                        | 21.31                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 0            | 21.12                     | 21.26                        | 21.30                      |                           |             |  |  |
| 1.4                | HQDM       | 6         | 0            | 20.25                     | 20.03                        | 20.20                      | 22                        | 2           |  |  |
| 1.4                | HQDM       | 6         | 1            | 18.25                     | 18.21                        | 18.18                      |                           |             |  |  |
| 1.4                | HQDM       | 1         | 0            | 18.40                     | 18.47                        | 18.48                      |                           |             |  |  |
| 1.4                | HQDM       | 1         | 3            | 18.49                     | 18.63                        | 18.49                      |                           |             |  |  |
| 1.4                | HQDM       | 3         | 0            | 18.16                     | 18.26                        | 18.25                      | 20                        | 4           |  |  |
| 1.4                | HQDM       | 3         | 1            | 18.30                     | 18.39                        | 18.39                      |                           |             |  |  |
| 1.4                | HQDM       | 6         | 0            | 18.34                     | 18.34                        | 18.34                      |                           |             |  |  |
| 1.4                | HQDM       | 6         | 1            | 18.34                     | 18.38                        | 18.35                      | 20                        | 4           |  |  |

| Band 30_Ant 1   |            |         |           |                                                  |                        |                        |                   |          |      |   |  |  |
|-----------------|------------|---------|-----------|--------------------------------------------------|------------------------|------------------------|-------------------|----------|------|---|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power [dBm] Ch / Freq.                           | Power [dBm] Ch / Freq. | Power [dBm] Ch / Freq. | Turn-up time [dB] | MPE [dB] |      |   |  |  |
| Channel         |            |         |           | 2710                                             |                        |                        |                   |          |      |   |  |  |
| Frequency [MHz] |            |         |           | 2710                                             |                        |                        |                   |          |      |   |  |  |
| 10              | QPSK       | 1       | 0         | 17.48                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | QPSK       | 1       | 25        | 17.57                                            |                        |                        |                   |          |      |   |  |  |
| 10              | QPSK       | 1       | 49        | 17.30                                            |                        |                        |                   |          |      |   |  |  |
| 10              | QPSK       | 25      | 0         | 17.58                                            |                        |                        |                   |          |      |   |  |  |
| 10              | QPSK       | 25      | 12        | 17.31                                            |                        |                        |                   |          |      |   |  |  |
| 10              | QPSK       | 25      | 25        | 17.41                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | QPSK       | 50      | 0         | 17.48                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 17.34                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 1       | 25        | 17.37                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 1       | 49        | 17.32                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 25      | 0         | 17.42                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | 16QAM      | 25      | 12        | 17.34                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 25      | 25        | 17.28                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 16QAM      | 50      | 0         | 17.38                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 64QAM      | 1       | 0         | 17.31                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 64QAM      | 1       | 25        | 17.29                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | 64QAM      | 1       | 49        | 17.37                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 64QAM      | 25      | 0         | 17.39                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 64QAM      | 25      | 12        | 17.36                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 64QAM      | 25      | 25        | 17.30                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 1       | 0         | 17.40                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | 256QAM     | 1       | 25        | 17.38                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 1       | 49        | 17.28                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 25      | 0         | 17.31                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 25      | 12        | 17.29                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 25      | 25        | 17.35                                            |                        |                        | 18.9              | 0        |      |   |  |  |
| 10              | 256QAM     | 50      | 0         | 17.40                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 50      | 12        | 17.30                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 50      | 25        | 17.24                                            |                        |                        |                   |          |      |   |  |  |
| 10              | 256QAM     | 100     | 0         | 17.34                                            |                        |                        |                   |          |      |   |  |  |
| Channel         |            |         |           | 2706.5 <th></th> <th></th> <th colspan="2"></th> |                        |                        |                   |          |      |   |  |  |
| Frequency [MHz] |            |         |           | 2706.5 <th></th> <th></th> <th colspan="2"></th> |                        |                        |                   |          |      |   |  |  |
| 5               | QPSK       | 1       | 0         | 17.48                                            | 17.48                  | 17.44                  |                   |          | 18.9 | 0 |  |  |
| 5               | QPSK       | 1       | 12        | 17.51                                            | 17.50                  | 17.54                  |                   |          |      |   |  |  |
| 5               | QPSK       | 1       | 24        | 17.29                                            | 17.18                  | 17.23                  |                   |          |      |   |  |  |
| 5               | QPSK       | 12      | 0         | 17.43                                            | 17.45                  | 17.50                  |                   |          |      |   |  |  |
| 5               | QPSK       | 12      | 7         | 17.29                                            | 17.16                  | 17.23                  |                   |          |      |   |  |  |
| 5               | QPSK       | 12      | 13        | 17.28                                            | 17.27                  | 17.38                  | 18.9              | 0        |      |   |  |  |
| 5               | QPSK       | 25      | 0         | 17.48                                            | 17.36                  | 17.38                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 1       | 0         | 17.28                                            | 17.19                  | 17.23                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 1       | 12        | 17.27                                            | 17.25                  | 17.35                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 1       | 24        | 17.30                                            | 17.24                  | 17.27                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 12      | 0         | 17.37                                            | 17.37                  | 17.27                  | 18.9              | 0        |      |   |  |  |
| 5               | 16QAM      | 12      | 7         | 17.26                                            | 17.20                  | 17.29                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 12      | 13        | 17.20                                            | 17.20                  | 17.28                  |                   |          |      |   |  |  |
| 5               | 16QAM      | 25      | 0         | 17.23                                            | 17.17                  | 17.21                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 1       | 0         | 17.18                                            | 17.26                  | 17.25                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 1       | 12        | 17.25                                            | 17.24                  | 17.25                  | 18.9              | 0        |      |   |  |  |
| 5               | 64QAM      | 1       | 24        | 17.35                                            | 17.23                  | 17.14                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 12      | 0         | 17.25                                            | 17.24                  | 17.25                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 12      | 7         | 17.34                                            | 17.26                  | 17.35                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 12      | 13        | 17.29                                            | 17.26                  | 17.17                  |                   |          |      |   |  |  |
| 5               | 64QAM      | 25      | 0         | 17.24                                            | 17.20                  | 17.24                  | 18.9              | 0        |      |   |  |  |
| 5               | 256QAM     | 1       | 0         | 17.31                                            | 17.34                  | 17.31                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 1       | 12        | 17.37                                            | 17.26                  | 17.34                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 1       | 24        | 17.26                                            | 17.21                  | 17.15                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 12      | 0         | 17.22                                            | 17.16                  | 17.23                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 12      | 7         | 17.14                                            | 17.23                  | 17.25                  | 18.9              | 0        |      |   |  |  |
| 5               | 256QAM     | 12      | 13        | 17.21                                            | 17.21                  | 17.25                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 25      | 0         | 17.24                                            | 17.19                  | 17.25                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 25      | 0         | 17.24                                            | 17.19                  | 17.25                  |                   |          |      |   |  |  |
| 5               | 256QAM     | 25      | 0         | 17.24                                            | 17.19                  | 17.25                  |                   |          |      |   |  |  |

| Band 66_Ant 0   |            |         |           |                      |                         |                       |                    |          |      |   |  |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|--------------------|----------|------|---|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Turn-up time (dBm) | MPE (dB) |      |   |  |  |
| Channel 1700.72 |            |         |           |                      |                         |                       |                    |          |      |   |  |  |
| Frequency (MHz) |            |         |           | 1720                 | 1745                    | 1770.72               |                    |          |      |   |  |  |
| 20              | QPSK       | 1       | 0         | 21.05                | 21.25                   | 21.08                 | 21.9               | 0        |      |   |  |  |
| 20              | QPSK       | 1       | 49        | 21.10                | 21.28                   | 21.19                 |                    |          |      |   |  |  |
| 20              | QPSK       | 1       | 99        | 21.17                | 21.21                   | 21.12                 |                    |          |      |   |  |  |
| 20              | QPSK       | 50      | 0         | 21.15                | 21.26                   | 21.11                 |                    |          |      |   |  |  |
| 20              | QPSK       | 50      | 24        | 21.14                | 21.21                   | 21.08                 |                    |          |      |   |  |  |
| 20              | QPSK       | 50      | 25        | 21.07                | 21.17                   | 21.08                 | 21.9               | 0        |      |   |  |  |
| 20              | QPSK       | 100     | 0         | 21.16                | 21.23                   | 21.11                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 1       | 0         | 21.06                | 21.15                   | 21.13                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 1       | 49        | 21.11                | 21.26                   | 21.17                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 1       | 99        | 21.18                | 21.26                   | 21.17                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 50      | 0         | 21.12                | 21.26                   | 21.07                 | 21.9               | 0        |      |   |  |  |
| 20              | 16QAM      | 50      | 24        | 21.15                | 21.24                   | 21.13                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 50      | 50        | 21.13                | 21.13                   | 21.16                 |                    |          |      |   |  |  |
| 20              | 16QAM      | 100     | 0         | 21.13                | 21.17                   | 21.15                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 1       | 0         | 21.17                | 21.22                   | 21.08                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 1       | 49        | 21.08                | 21.25                   | 21.17                 | 21.9               | 0        |      |   |  |  |
| 20              | 64QAM      | 1       | 99        | 21.12                | 21.24                   | 21.12                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 50      | 0         | 21.12                | 21.14                   | 21.15                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 50      | 24        | 21.13                | 21.23                   | 21.04                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 50      | 25        | 21.08                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 20              | 64QAM      | 100     | 0         | 21.17                | 21.22                   | 21.08                 | 21.9               | 0        |      |   |  |  |
| 20              | 256QAM     | 1       | 0         | 18.52                | 18.53                   | 18.46                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 1       | 49        | 18.59                | 18.53                   | 18.28                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 1       | 99        | 18.57                | 18.48                   | 18.55                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 50      | 0         | 18.51                | 18.52                   | 18.46                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 50      | 24        | 18.59                | 18.50                   | 18.58                 | 20                 | 1.9      |      |   |  |  |
| 20              | 256QAM     | 50      | 25        | 18.55                | 18.41                   | 18.58                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 100     | 0         | 18.58                | 18.52                   | 18.59                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 100     | 0         | 18.58                | 18.52                   | 18.59                 |                    |          |      |   |  |  |
| 20              | 256QAM     | 100     | 0         | 18.58                | 18.52                   | 18.59                 |                    |          |      |   |  |  |
| Channel 1715.52 |            |         |           |                      |                         |                       |                    |          |      |   |  |  |
| Frequency (MHz) |            |         |           | 1715.5               | 1745                    | 1775.52               |                    |          |      |   |  |  |
| 10              | QPSK       | 1       | 0         | 20.98                | 21.24                   | 20.98                 |                    |          | 21.9 | 0 |  |  |
| 10              | QPSK       | 1       | 37        | 21.11                | 21.20                   | 21.17                 |                    |          |      |   |  |  |
| 10              | QPSK       | 1       | 74        | 21.15                | 21.14                   | 21.14                 |                    |          |      |   |  |  |
| 10              | QPSK       | 36      | 0         | 21.07                | 21.21                   | 21.19                 |                    |          |      |   |  |  |
| 10              | QPSK       | 36      | 20        | 21.00                | 21.07                   | 20.94                 |                    |          |      |   |  |  |
| 10              | QPSK       | 36      | 25        | 20.99                | 21.02                   | 20.92                 | 21.9               | 0        |      |   |  |  |
| 10              | QPSK       | 75      | 0         | 21.11                | 21.18                   | 21.04                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 20.91                | 21.00                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.08                | 21.22                   | 21.05                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.09                | 21.11                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 20.98                | 21.13                   | 21.05                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.02                | 21.19                   | 21.00                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 20.99                | 21.01                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.05                | 21.15                   | 21.03                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.10                | 21.25                   | 20.99                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 0         | 21.02                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 20        | 21.03                | 21.19                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 36      | 25        | 21.02                | 21.11                   | 20.91                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 75      | 0         | 21.09                | 21.48                   | 20.91                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 20        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 75      | 25        | 21.05                | 21.18                   | 21.08                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 100     | 0         | 21.05                | 21.10                   | 21.10                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.02                | 21.25                   | 20.98                 | 21.9               | 0        |      |   |  |  |
| 10              | 16QAM      | 1       | 37        | 21.09                | 21.21                   | 21.11                 |                    |          |      |   |  |  |
| 10              | 16QAM      | 1       | 74        | 21.08                | 21.20                   | 21.14                 |                    |          |      |   |  |  |
| 10              | 16QAM      |         |           |                      |                         |                       |                    |          |      |   |  |  |

| Band 71_Ant 0   |            |        |           |                     |                      |                      |               |          |               |          |  |  |
|-----------------|------------|--------|-----------|---------------------|----------------------|----------------------|---------------|----------|---------------|----------|--|--|
| BW [MHz]        | Modulation | RB Sub | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up (mHz) | MFR (dB) |               |          |  |  |
| Channel         |            |        |           |                     |                      |                      |               |          |               |          |  |  |
| Frequency (MHz) |            |        |           | 193222              | 193297               | 193372               |               |          |               |          |  |  |
| 20              | QPSK       | 1      | 0         | 22.71               | 22.74                | 22.57                | 24            | 0        |               |          |  |  |
| 20              | QPSK       | 1      | 48        | 22.75               | 22.85                | 22.63                |               |          |               |          |  |  |
| 20              | QPSK       | 1      | 96        | 22.88               | 22.84                | 22.61                |               |          |               |          |  |  |
| 20              | QPSK       | 50     | 0         | 22.67               | 22.73                | 22.61                |               |          |               |          |  |  |
| 20              | QPSK       | 50     | 24        | 22.63               | 22.67                | 22.58                |               |          |               |          |  |  |
| 20              | QPSK       | 50     | 50        | 22.53               | 22.57                | 22.58                | 24            | 0        |               |          |  |  |
| 20              | 16QAM      | 1      | 0         | 22.78               | 22.79                | 22.75                |               |          |               |          |  |  |
| 20              | 16QAM      | 1      | 48        | 22.69               | 22.71                | 22.58                |               |          |               |          |  |  |
| 20              | 16QAM      | 1      | 96        | 22.65               | 22.66                | 22.36                |               |          |               |          |  |  |
| 20              | 16QAM      | 50     | 0         | 22.15               | 22.22                | 22.15                |               |          |               |          |  |  |
| 20              | 16QAM      | 50     | 24        | 22.12               | 22.15                | 22.08                | 23            | 1        |               |          |  |  |
| 20              | 16QAM      | 50     | 50        | 22.16               | 22.17                | 22.11                |               |          |               |          |  |  |
| 20              | 16QAM      | 100    | 0         | 22.07               | 22.08                | 22.08                |               |          |               |          |  |  |
| 20              | 64QAM      | 1      | 0         | 22.49               | 22.50                | 22.48                |               |          |               |          |  |  |
| 20              | 64QAM      | 1      | 48        | 22.29               | 22.34                | 22.27                |               |          |               |          |  |  |
| 20              | 64QAM      | 1      | 96        | 22.36               | 22.41                | 22.40                | 22            | 2        |               |          |  |  |
| 20              | 64QAM      | 50     | 0         | 21.33               | 21.35                | 21.29                |               |          |               |          |  |  |
| 20              | 64QAM      | 50     | 24        | 21.18               | 21.22                | 21.19                |               |          |               |          |  |  |
| 20              | 64QAM      | 50     | 50        | 21.18               | 21.20                | 21.16                |               |          |               |          |  |  |
| 20              | 64QAM      | 100    | 0         | 21.14               | 21.17                | 21.14                |               |          |               |          |  |  |
| 20              | 256QAM     | 100    | 0         | 19.49               | 19.53                | 19.52                | 20            | 4        |               |          |  |  |
| 20              | 256QAM     | 1      | 99        | 19.34               | 19.36                | 19.31                |               |          |               |          |  |  |
| 20              | 256QAM     | 1      | 25        | 19.39               | 19.39                | 19.29                |               |          |               |          |  |  |
| 20              | 256QAM     | 50     | 24        | 19.19               | 19.23                | 19.19                |               |          |               |          |  |  |
| 20              | 256QAM     | 50     | 50        | 19.04               | 19.06                | 19.05                |               |          |               |          |  |  |
| 20              | 256QAM     | 100    | 0         | 19.24               | 19.25                | 19.18                | 20            | 4        |               |          |  |  |
| Channel         |            |        |           |                     |                      |                      |               |          |               |          |  |  |
| Frequency (MHz) |            |        |           | 193197              | 193297               | 193397               |               |          | Tune-up (mHz) | MFR (dB) |  |  |
|                 |            |        |           | 873.5               | 883.5                | 888.5                |               |          |               |          |  |  |
| 15              | QPSK       | 1      | 0         | 22.61               | 22.67                | 22.48                |               |          | 24            | 0        |  |  |
| 15              | QPSK       | 1      | 37        | 22.65               | 22.75                | 22.51                |               |          |               |          |  |  |
| 15              | QPSK       | 1      | 74        | 22.47               | 22.54                | 22.34                |               |          |               |          |  |  |
| 15              | QPSK       | 38     | 0         | 22.58               | 22.63                | 22.61                |               |          |               |          |  |  |
| 15              | QPSK       | 38     | 20        | 22.48               | 22.59                | 22.54                |               |          |               |          |  |  |
| 15              | QPSK       | 38     | 38        | 22.41               | 22.50                | 22.47                | 24            | 0        |               |          |  |  |
| 15              | QPSK       | 75     | 0         | 22.59               | 22.60                | 22.55                |               |          |               |          |  |  |
| 15              | 16QAM      | 1      | 0         | 22.74               | 22.76                | 22.67                |               |          |               |          |  |  |
| 15              | 16QAM      | 1      | 37        | 22.60               | 22.61                | 22.63                |               |          |               |          |  |  |
| 15              | 16QAM      | 1      | 74        | 22.52               | 22.58                | 22.49                |               |          |               |          |  |  |
| 15              | 16QAM      | 38     | 0         | 22.12               | 22.19                | 22.03                | 23            | 1        |               |          |  |  |
| 15              | 16QAM      | 38     | 20        | 22.03               | 22.12                | 22.03                |               |          |               |          |  |  |
| 15              | 16QAM      | 38     | 38        | 22.12               | 22.12                | 22.07                |               |          |               |          |  |  |
| 15              | 16QAM      | 75     | 0         | 21.99               | 22.06                | 22.04                |               |          |               |          |  |  |
| 15              | 16QAM      | 1      | 0         | 22.40               | 22.39                | 22.37                |               |          |               |          |  |  |
| 15              | 64QAM      | 1      | 37        | 22.23               | 22.24                | 22.21                | 23            | 1        |               |          |  |  |
| 15              | 64QAM      | 1      | 74        | 22.30               | 22.29                | 22.34                |               |          |               |          |  |  |
| 15              | 64QAM      | 38     | 0         | 21.29               | 21.27                | 21.26                |               |          |               |          |  |  |
| 15              | 64QAM      | 38     | 20        | 21.12               | 21.10                | 21.15                |               |          |               |          |  |  |
| 15              | 64QAM      | 38     | 59        | 21.10               | 21.10                | 21.06                |               |          |               |          |  |  |
| 15              | 256QAM     | 75     | 0         | 21.07               | 21.09                | 21.02                | 22            | 2        |               |          |  |  |
| 15              | 256QAM     | 1      | 0         | 19.42               | 19.42                | 19.44                |               |          |               |          |  |  |
| 15              | 256QAM     | 1      | 37        | 19.38               | 19.39                | 19.33                |               |          |               |          |  |  |
| 15              | 256QAM     | 1      | 74        | 19.28               | 19.24                | 19.26                |               |          |               |          |  |  |
| 15              | 256QAM     | 38     | 0         | 19.15               | 19.20                | 19.21                |               |          |               |          |  |  |
| 15              | 256QAM     | 38     | 20        | 19.10               | 19.17                | 19.11                | 20            | 4        |               |          |  |  |
| 15              | 256QAM     | 38     | 38        | 19.08               | 19.02                | 18.98                |               |          |               |          |  |  |
| 15              | 256QAM     | 38     | 59        | 19.08               | 19.02                | 18.98                |               |          |               |          |  |  |
| 15              | 256QAM     | 75     | 0         | 19.17               | 19.13                | 19.11                |               |          |               |          |  |  |
| Channel         |            |        |           |                     |                      |                      |               |          |               |          |  |  |
| Frequency (MHz) |            |        |           | 193172              | 193297               | 193422               | Tune-up (mHz) | MFR (dB) |               |          |  |  |
|                 |            |        |           | 888                 | 883.5                | 888.5                |               |          |               |          |  |  |
| 10              | QPSK       | 1      | 0         | 22.61               | 22.63                | 22.53                | 24            | 0        |               |          |  |  |
| 10              | QPSK       | 1      | 25        | 22.68               | 22.75                | 22.52                |               |          |               |          |  |  |
| 10              | QPSK       | 1      | 48        | 22.55               | 22.65                | 22.51                |               |          |               |          |  |  |
| 10              | QPSK       | 25     | 0         | 22.59               | 22.64                | 22.69                |               |          |               |          |  |  |
| 10              | QPSK       | 25     | 12        | 22.47               | 22.57                | 22.57                |               |          |               |          |  |  |
| 10              | QPSK       | 25     | 35        | 22.48               | 22.53                | 22.50                | 24            | 0        |               |          |  |  |
| 10              | QPSK       | 50     | 0         | 22.59               | 22.59                | 22.57                |               |          |               |          |  |  |
| 10              | 16QAM      | 1      | 0         | 22.67               | 22.75                | 22.68                |               |          |               |          |  |  |
| 10              | 16QAM      | 1      | 25        | 22.67               | 22.68                | 22.64                |               |          |               |          |  |  |
| 10              | 16QAM      | 25     | 0         | 22.11               | 22.17                | 22.07                |               |          |               |          |  |  |
| 10              | 16QAM      | 25     | 12        | 22.04               | 22.11                | 21.96                | 23            | 1        |               |          |  |  |
| 10              | 16QAM      | 25     | 25        | 22.07               | 22.10                | 22.07                |               |          |               |          |  |  |
| 10              | 16QAM      | 50     | 0         | 21.98               | 22.06                | 21.91                |               |          |               |          |  |  |
| 10              | 16QAM      | 1      | 0         | 22.46               | 22.45                | 22.40                |               |          |               |          |  |  |
| 10              | 64QAM      | 1      | 25        | 22.21               | 22.27                | 22.21                |               |          |               |          |  |  |
| 10              | 64QAM      | 1      | 49        | 22.25               | 22.32                | 22.33                | 22            | 2        |               |          |  |  |
| 10              | 64QAM      | 25     | 0         | 21.24               | 21.23                | 21.19                |               |          |               |          |  |  |
| 10              | 64QAM      | 25     | 12        | 21.05               | 21.11                | 21.15                |               |          |               |          |  |  |
| 10              | 64QAM      | 25     | 25        | 21.07               | 21.13                | 21.06                |               |          |               |          |  |  |
| 10              | 64QAM      | 50     | 0         | 21.11               | 21.13                | 21.08                |               |          |               |          |  |  |
| 10              | 256QAM     | 50     | 0         | 21.11               | 21.13                | 21.08                | 20            | 4        |               |          |  |  |
| 10              | 256QAM     | 1      | 0         | 19.40               | 19.44                | 19.41                |               |          |               |          |  |  |
| 10              | 256QAM     | 1      | 25        | 19.38               | 19.41                | 19.38                |               |          |               |          |  |  |
| 10              | 256QAM     | 1      | 49        | 19.25               | 19.30                | 19.26                |               |          |               |          |  |  |
| 10              | 256QAM     | 25     | 0         | 19.20               | 19.19                | 19.19                |               |          |               |          |  |  |
| 10              | 256QAM     | 25     | 12        | 19.09               | 19.14                | 19.11                | 20            | 4        |               |          |  |  |
| 10              | 256QAM     | 25     | 25        | 19.07               | 19.07                | 18.94                |               |          |               |          |  |  |
| 10              | 256QAM     | 25     | 50        | 19.07               | 19.07                | 18.94                |               |          |               |          |  |  |
| 10              | 256QAM     | 50     | 0         | 19.16               | 19.14                | 19.13                |               |          |               |          |  |  |
| Channel         |            |        |           |                     |                      |                      |               |          |               |          |  |  |
| Frequency (MHz) |            |        |           | 193147              | 193297               | 193447               | Tune-up (mHz) | MFR (dB) |               |          |  |  |
|                 |            |        |           | 883.5               | 883.5                | 888.5                |               |          |               |          |  |  |
| 5               | QPSK       | 1      | 0         | 22.67               | 22.67                | 22.49                | 24            | 0        |               |          |  |  |
| 5               | QPSK       | 1      | 12        | 22.67               | 22.74                | 22.52                |               |          |               |          |  |  |
| 5               | QPSK       | 1      | 24        | 22.51               | 22.61                | 22.35                |               |          |               |          |  |  |
| 5               | QPSK       | 12     | 0         | 22.60               | 22.63                | 22.66                |               |          |               |          |  |  |
| 5               | QPSK       | 12     | 7         | 22.45               | 22.56                | 22.54                |               |          |               |          |  |  |
| 5               | QPSK       | 12     | 11        | 22.50               | 22.46                | 22.45                | 24            | 0        |               |          |  |  |
| 5               | QPSK       | 25     | 0         | 22.61               | 22.65                | 22.61                |               |          |               |          |  |  |
| 5               | 16QAM      | 1      | 0         | 22.72               | 22.75                | 22.72                |               |          |               |          |  |  |
| 5               | 16QAM      | 1      | 12        | 22.61               | 22.67                | 22.62                |               |          |               |          |  |  |
| 5               | 16QAM      | 1      | 24        | 22.48               | 22.61                | 22.51                |               |          |               |          |  |  |
| 5               | 16QAM      | 12     | 0         | 22.11               | 22.15                | 22.04                | 23            | 1        |               |          |  |  |
| 5               | 16QAM      | 12     | 7         | 22.02               | 22.09                | 22.04                |               |          |               |          |  |  |
| 5               | 16QAM      | 12     | 12        | 22.11               | 22.08                | 22.06                |               |          |               |          |  |  |
| 5               | 16QAM      | 25     | 0         | 21.99               | 22.04                | 21.98                |               |          |               |          |  |  |
| 5               | 64QAM      | 1      | 0         | 22.44               | 22.42                | 22.44                |               |          |               |          |  |  |
| 5               | 64QAM      | 1      | 12        | 22.22               | 22.29                | 22.21                | 23            | 1        |               |          |  |  |
| 5               | 64QAM      | 1      | 24        | 22.33               | 22.34                | 22.37                |               |          |               |          |  |  |
| 5               | 64QAM      | 12     | 0         | 21.26               | 21.29                | 21.23                |               |          |               |          |  |  |
| 5               | 64QAM      | 12     | 7         | 21.11               | 21.11                | 21.11                | 22            | 2        |               |          |  |  |
| 5               | 64QAM      | 12     | 13        | 21.06               | 21.15                | 21.07                |               |          |               |          |  |  |
| 5               | 64QAM      | 25     | 0         | 21.02               | 21.11                | 21.06                |               |          |               |          |  |  |
| 5               | 64QAM      | 25     | 12        | 21.03               | 21.04                | 21.04                |               |          |               |          |  |  |
| 5               | 64QAM      | 25     | 13        | 21.03               | 21.04                | 21.04                |               |          |               |          |  |  |
| 5               | 256QAM     | 1      | 12        | 19.33               | 19.42                | 19.38                | 20            | 4        |               |          |  |  |
| 5               | 256QAM     | 1      | 24        | 19.30               | 19.29                | 19.27                |               |          |               |          |  |  |
| 5               | 256QAM     | 12     | 0         | 19.22               | 19.25                | 19.18                |               |          |               |          |  |  |
| 5               | 256QAM     | 12     | 7         | 19.12               | 19.16                | 19.12                |               |          |               |          |  |  |
| 5               | 256QAM     | 12     | 13        | 19.09               | 19.09                | 19.05                |               |          |               |          |  |  |

| Band 38_Ant 9   |            |         |           |                     |                      |                      |                    |          |                    |          |  |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|----------|--------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-on time (dBm) | MPR (dB) |                    |          |  |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |                    |          |  |  |
| Frequency (MHz) |            |         |           | 37650               | 38000                | 38150                |                    |          |                    |          |  |  |
| 20              | QPSK       | 1       | 0         | 23.04               | 23.14                | 23.01                | 24                 | 0        |                    |          |  |  |
| 20              | QPSK       | 1       | 49        | 23.08               | 23.02                | 23.08                |                    |          |                    |          |  |  |
| 20              | QPSK       | 1       | 99        | 23.18               | 23.21                | 22.97                |                    |          |                    |          |  |  |
| 20              | QPSK       | 50      | 0         | 23.30               | 23.35                | 23.18                |                    |          |                    |          |  |  |
| 20              | QPSK       | 50      | 24        | 23.28               | 23.32                | 23.12                | 24                 | 0        |                    |          |  |  |
| 20              | QPSK       | 50      | 50        | 23.20               | 23.28                | 23.16                |                    |          |                    |          |  |  |
| 20              | QPSK       | 100     | 0         | 23.30               | 23.32                | 23.23                |                    |          |                    |          |  |  |
| 20              | 16QAM      | 1       | 0         | 23.05               | 23.13                | 22.71                |                    |          |                    |          |  |  |
| 20              | 16QAM      | 1       | 49        | 22.99               | 23.15                | 22.71                | 24                 | 0        |                    |          |  |  |
| 20              | 16QAM      | 1       | 99        | 23.19               | 23.09                | 23.02                |                    |          |                    |          |  |  |
| 20              | 16QAM      | 50      | 0         | 23.75               | 22.96                | 22.92                |                    |          |                    |          |  |  |
| 20              | 16QAM      | 50      | 24        | 23.11               | 22.96                | 23.02                |                    |          | 23.5               |          |  |  |
| 20              | 16QAM      | 100     | 0         | 22.95               | 22.99                | 22.85                | 23.5               | 0.5      |                    |          |  |  |
| 20              | 64QAM      | 1       | 0         | 22.48               | 22.51                | 22.75                |                    |          |                    |          |  |  |
| 20              | 64QAM      | 1       | 99        | 22.89               | 22.85                | 22.61                |                    |          |                    |          |  |  |
| 20              | 64QAM      | 50      | 0         | 21.78               | 21.92                | 21.89                |                    |          |                    |          |  |  |
| 20              | 64QAM      | 50      | 24        | 22.09               | 21.98                | 21.93                | 22.5               | 1.5      |                    |          |  |  |
| 20              | 64QAM      | 50      | 50        | 22.08               | 22.09                | 21.99                |                    |          |                    |          |  |  |
| 20              | 64QAM      | 100     | 0         | 21.85               | 22.03                | 21.93                |                    |          |                    |          |  |  |
| 20              | 256QAM     | 1       | 0         | 19.60               | 19.63                | 19.58                |                    |          |                    |          |  |  |
| 20              | 256QAM     | 1       | 49        | 19.61               | 19.59                | 19.45                | 20.5               | 3.5      |                    |          |  |  |
| 20              | 256QAM     | 50      | 0         | 19.68               | 19.74                | 19.68                |                    |          |                    |          |  |  |
| 20              | 256QAM     | 50      | 24        | 19.62               | 19.67                | 19.63                |                    |          |                    |          |  |  |
| 20              | 256QAM     | 50      | 50        | 19.62               | 19.63                | 19.62                |                    |          |                    |          |  |  |
| 20              | 256QAM     | 100     | 0         | 19.68               | 19.74                | 19.72                | 20.5               | 3.5      |                    |          |  |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |                    |          |  |  |
| Frequency (MHz) |            |         |           | 3757.5              | 38000                | 38175                |                    |          | Turn-on time (dBm) | MPR (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 22.88               | 23.10                | 22.86                | 24                 | 0        |                    |          |  |  |
| 15              | QPSK       | 1       | 37        | 23.29               | 23.35                | 22.89                |                    |          |                    |          |  |  |
| 15              | QPSK       | 1       | 74        | 23.02               | 23.17                | 22.78                |                    |          |                    |          |  |  |
| 15              | QPSK       | 36      | 0         | 23.25               | 23.34                | 23.10                |                    |          |                    |          |  |  |
| 15              | QPSK       | 36      | 20        | 23.09               | 23.19                | 22.96                | 24                 | 0        |                    |          |  |  |
| 15              | QPSK       | 36      | 36        | 23.02               | 23.17                | 23.15                |                    |          |                    |          |  |  |
| 15              | QPSK       | 75      | 0         | 23.13               | 23.18                | 23.07                |                    |          |                    |          |  |  |
| 15              | 16QAM      | 1       | 0         | 22.39               | 22.96                | 22.95                |                    |          |                    |          |  |  |
| 15              | 16QAM      | 1       | 37        | 22.89               | 23.03                | 23.16                | 24                 | 0        |                    |          |  |  |
| 15              | 16QAM      | 1       | 74        | 23.10               | 22.93                | 22.91                |                    |          |                    |          |  |  |
| 15              | 16QAM      | 36      | 0         | 22.62               | 22.76                | 22.82                |                    |          |                    |          |  |  |
| 15              | 16QAM      | 36      | 20        | 23.03               | 22.79                | 22.95                |                    |          | 23.5               |          |  |  |
| 15              | 16QAM      | 36      | 36        | 22.96               | 22.97                | 22.91                | 23.5               | 0.5      |                    |          |  |  |
| 15              | 16QAM      | 75      | 0         | 22.93               | 22.71                | 22.74                |                    |          |                    |          |  |  |
| 15              | 16QAM      | 75      | 20        | 22.95               | 22.95                | 22.95                |                    |          |                    |          |  |  |
| 15              | 64QAM      | 1       | 37        | 22.63               | 22.73                | 22.51                |                    |          |                    |          |  |  |
| 15              | 64QAM      | 1       | 74        | 22.51               | 22.75                | 22.55                | 22.5               | 1.5      |                    |          |  |  |
| 15              | 64QAM      | 36      | 0         | 21.70               | 21.79                | 21.84                |                    |          |                    |          |  |  |
| 15              | 64QAM      | 36      | 20        | 21.86               | 21.86                | 21.82                |                    |          |                    |          |  |  |
| 15              | 64QAM      | 36      | 36        | 21.92               | 21.91                | 21.95                |                    |          |                    |          |  |  |
| 15              | 64QAM      | 75      | 0         | 21.79               | 21.87                | 21.81                | 20.5               | 3.5      |                    |          |  |  |
| 15              | 256QAM     | 1       | 0         | 19.32               | 19.37                | 19.35                |                    |          |                    |          |  |  |
| 15              | 256QAM     | 1       | 37        | 19.38               | 19.43                | 19.39                |                    |          |                    |          |  |  |
| 15              | 256QAM     | 1       | 74        | 19.35               | 19.42                | 19.32                |                    |          |                    |          |  |  |
| 15              | 256QAM     | 36      | 0         | 19.65               | 19.62                | 19.58                | 20.5               | 3.5      |                    |          |  |  |
| 15              | 256QAM     | 36      | 20        | 19.59               | 19.62                | 19.61                |                    |          |                    |          |  |  |
| 15              | 256QAM     | 36      | 36        | 19.56               | 19.54                | 19.53                |                    |          |                    |          |  |  |
| 15              | 256QAM     | 75      | 0         | 19.59               | 19.69                | 19.67                |                    |          |                    |          |  |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |                    |          |  |  |
| Frequency (MHz) |            |         |           | 37600               | 38000                | 38200                | Turn-on time (dBm) | MPR (dB) |                    |          |  |  |
| 10              | QPSK       | 1       | 0         | 23.19               | 23.09                | 22.93                | 24                 | 0        |                    |          |  |  |
| 10              | QPSK       | 1       | 25        | 23.19               | 23.31                | 23.05                |                    |          |                    |          |  |  |
| 10              | QPSK       | 1       | 49        | 23.03               | 23.09                | 22.91                |                    |          |                    |          |  |  |
| 10              | QPSK       | 25      | 0         | 23.19               | 23.25                | 23.07                |                    |          |                    |          |  |  |
| 10              | QPSK       | 25      | 12        | 23.26               | 23.27                | 23.03                | 24                 | 0        |                    |          |  |  |
| 10              | QPSK       | 25      | 25        | 23.04               | 23.09                | 23.10                |                    |          |                    |          |  |  |
| 10              | QPSK       | 50      | 0         | 23.19               | 23.22                | 23.17                |                    |          |                    |          |  |  |
| 10              | 16QAM      | 1       | 0         | 23.03               | 23.02                | 22.63                |                    |          |                    |          |  |  |
| 10              | 16QAM      | 1       | 25        | 22.95               | 23.10                | 23.01                | 24                 | 0        |                    |          |  |  |
| 10              | 16QAM      | 1       | 49        | 23.06               | 22.91                | 22.95                |                    |          |                    |          |  |  |
| 10              | 16QAM      | 25      | 0         | 22.73               | 22.87                | 22.81                |                    |          |                    |          |  |  |
| 10              | 16QAM      | 25      | 12        | 23.09               | 22.79                | 22.71                |                    |          | 23.5               |          |  |  |
| 10              | 16QAM      | 25      | 25        | 22.95               | 22.94                | 22.79                | 23.5               | 0.5      |                    |          |  |  |
| 10              | 16QAM      | 50      | 0         | 22.75               | 22.71                | 22.67                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 1       | 25        | 22.47               | 22.33                | 22.26                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 1       | 25        | 22.84               | 22.66                | 22.46                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 1       | 49        | 22.51               | 22.78                | 22.46                | 22.5               | 1.5      |                    |          |  |  |
| 10              | 64QAM      | 25      | 0         | 21.65               | 21.86                | 21.84                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 25      | 12        | 22.06               | 21.84                | 21.75                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 25      | 25        | 21.92               | 22.03                | 21.93                |                    |          |                    |          |  |  |
| 10              | 64QAM      | 50      | 0         | 21.84               | 22.01                | 21.82                | 20.5               | 3.5      |                    |          |  |  |
| 10              | 256QAM     | 1       | 0         | 19.55               | 19.56                | 19.46                |                    |          |                    |          |  |  |
| 10              | 256QAM     | 1       | 25        | 19.38               | 19.46                | 19.41                |                    |          |                    |          |  |  |
| 10              | 256QAM     | 1       | 49        | 19.34               | 19.34                | 19.28                |                    |          |                    |          |  |  |
| 10              | 256QAM     | 25      | 0         | 19.62               | 19.64                | 19.61                | 20.5               | 3.5      |                    |          |  |  |
| 10              | 256QAM     | 25      | 12        | 19.55               | 19.62                | 19.56                |                    |          |                    |          |  |  |
| 10              | 256QAM     | 25      | 25        | 19.56               | 19.60                | 19.56                |                    |          |                    |          |  |  |
| 10              | 256QAM     | 50      | 0         | 19.56               | 19.66                | 19.56                |                    |          |                    |          |  |  |
| Channel         |            |         |           |                     |                      |                      |                    |          |                    |          |  |  |
| Frequency (MHz) |            |         |           | 3772.5              | 38000                | 38225                | Turn-on time (dBm) | MPR (dB) |                    |          |  |  |
| 5               | QPSK       | 1       | 0         | 22.88               | 23.07                | 22.95                | 24                 | 0        |                    |          |  |  |
| 5               | QPSK       | 1       | 12        | 23.34               | 23.37                | 22.99                |                    |          |                    |          |  |  |
| 5               | QPSK       | 1       | 24        | 23.10               | 23.09                | 22.82                |                    |          |                    |          |  |  |
| 5               | QPSK       | 12      | 0         | 23.13               | 23.24                | 23.17                |                    |          |                    |          |  |  |
| 5               | QPSK       | 12      | 7         | 23.12               | 23.17                | 23.11                | 24                 | 0        |                    |          |  |  |
| 5               | QPSK       | 12      | 13        | 23.19               | 23.25                | 23.06                |                    |          |                    |          |  |  |
| 5               | QPSK       | 25      | 0         | 23.18               | 23.14                | 23.04                |                    |          |                    |          |  |  |
| 5               | 16QAM      | 1       | 0         | 22.97               | 23.06                | 22.53                |                    |          |                    |          |  |  |
| 5               | 16QAM      | 1       | 12        | 22.86               | 23.13                | 23.03                | 24                 | 0        |                    |          |  |  |
| 5               | 16QAM      | 1       | 24        | 22.99               | 22.89                | 22.96                |                    |          |                    |          |  |  |
| 5               | 16QAM      | 12      | 0         | 22.68               | 22.82                | 22.71                |                    |          |                    |          |  |  |
| 5               | 16QAM      | 12      | 7         | 23.05               | 22.77                | 22.91                |                    |          | 23.5               |          |  |  |
| 5               | 16QAM      | 12      | 13        | 23.01               | 23.05                | 22.76                | 23.5               | 0.5      |                    |          |  |  |
| 5               | 16QAM      | 25      | 0         | 22.77               | 22.92                | 22.80                |                    |          |                    |          |  |  |
| 5               | 64QAM      | 1       | 0         | 22.33               | 22.48                | 22.64                |                    |          |                    |          |  |  |
| 5               | 64QAM      | 1       | 12        | 22.56               | 22.70                | 22.39                |                    |          | 23.5               |          |  |  |
| 5               | 64QAM      | 1       | 24        | 22.57               | 22.72                | 22.50                | 22.5               | 1.5      |                    |          |  |  |
| 5               | 64QAM      | 12      | 0         | 21.63               | 21.79                | 21.76                |                    |          |                    |          |  |  |
| 5               | 64QAM      | 12      | 7         | 21.89               | 21.88                | 21.86                |                    |          |                    |          |  |  |
| 5               | 64QAM      | 12      | 13        | 22.02               | 22.08                | 21.87                |                    |          |                    |          |  |  |
| 5               | 64QAM      | 25      | 0         | 21.84               | 21.86                | 21.86                | 20.5               | 3.5      |                    |          |  |  |
| 5               | 256QAM     | 1       | 0         | 19.48               | 19.56                | 19.54                |                    |          |                    |          |  |  |
| 5               | 256QAM     | 1       | 12        | 19.40               | 19.44                | 19.41                |                    |          |                    |          |  |  |
| 5               | 256QAM     | 1       | 24        | 19.31               | 19.37                | 19.35                |                    |          |                    |          |  |  |
| 5               | 256QAM     | 12      | 0         | 19.63               | 19.63                | 19.59                | 20.5               | 3.5      |                    |          |  |  |
| 5               | 256QAM     | 12      | 7         | 19.50               | 19.61                | 19.59                |                    |          |                    |          |  |  |
| 5               | 256QAM     | 12      | 13        | 19.55               | 19.56                | 19.56                |                    |          |                    |          |  |  |
| 5               | 256QAM     | 25      | 0         | 19.56               | 19.66                | 19.66                |                    |          |                    |          |  |  |

| Band 41 (HPUE)_Ant 9 |            |         |           |                             |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
|----------------------|------------|---------|-----------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------|---------------------|----------|--|--|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Fec 1/2 Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Turn-up limit (dBm) | MPR (dB) |                     |          |  |  |  |  |
| Channel              |            |         |           |                             |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39790                       | 39750               | 40105               | 40620               | 41055               | 41490               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 0         | 24.40                       | 24.28               | 24.61               | 24.77               | 24.87               | 24.90               | 25.6                | 0        |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 48        | 24.51                       | 24.42               | 24.75               | 24.91               | 24.97               | 25.02               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 1       | 96        | 24.32                       | 24.34               | 24.68               | 24.73               | 24.74               | 24.94               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 0         | 24.38                       | 24.38               | 24.75               | 24.84               | 24.87               | 25.02               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 24        | 24.38                       | 24.33               | 24.66               | 24.74               | 24.82               | 24.94               | 25.6                | 0        |                     |          |  |  |  |  |
| 20                   | QPSK       | 50      | 50        | 24.27                       | 24.33               | 24.61               | 24.78               | 24.86               | 24.92               |                     |          |                     |          |  |  |  |  |
| 20                   | QPSK       | 100     | 0         | 24.28                       | 24.30               | 24.74               | 24.75               | 24.84               | 24.92               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 48        | 24.30                       | 24.38               | 24.62               | 24.78               | 24.88               | 24.96               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 96        | 24.29                       | 24.34               | 24.72               | 24.74               | 24.85               | 24.90               | 25.6                | 0        |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 24.35                       | 24.41               | 24.65               | 24.78               | 24.86               | 24.93               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 24.34                       | 24.41               | 24.68               | 24.83               | 24.76               | 24.95               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 24.29                       | 24.41               | 24.75               | 24.77               | 24.74               | 25.00               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 100     | 0         | 24.32                       | 24.31               | 24.73               | 24.79               | 24.82               | 24.96               | 25.6                | 0        |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 24.29                       | 24.31               | 24.65               | 24.76               | 24.87               | 24.98               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 48        | 24.27                       | 24.29               | 24.73               | 24.78               | 24.88               | 24.90               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 1       | 96        | 24.38                       | 24.27               | 24.64               | 24.78               | 24.84               | 24.92               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 24.20                       | 24.17               | 24.57               | 24.77               | 24.56               | 24.84               | 25.6                | 0        |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 24.36                       | 24.34               | 24.69               | 24.81               | 24.80               | 24.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 24.38                       | 24.32               | 24.69               | 24.83               | 24.54               | 24.84               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 0         | 22.07                       | 22.18               | 22.22               | 22.27               | 22.59               | 22.58               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 48        | 21.92                       | 22.14               | 22.17               | 22.26               | 22.48               | 22.48               | 23                  | 2.6      |                     |          |  |  |  |  |
| 20                   | 256QAM     | 1       | 96        | 22.01                       | 22.11               | 22.22               | 22.68               | 22.41               | 22.64               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 0         | 21.95                       | 22.09               | 22.18               | 22.75               | 22.44               | 22.54               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 24        | 22.06                       | 22.16               | 22.25               | 22.61               | 22.47               | 22.81               |                     |          |                     |          |  |  |  |  |
| 20                   | 256QAM     | 50      | 50        | 21.93                       | 22.08               | 22.17               | 22.68               | 22.40               | 22.82               | 23                  | 2.6      |                     |          |  |  |  |  |
| 20                   | 256QAM     | 100     | 0         | 21.97                       | 22.02               | 22.08               | 22.63               | 22.40               | 22.84               |                     |          |                     |          |  |  |  |  |
| Channel              |            |         |           |                             |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39795                       | 39725               | 40173               | 40620               | 41058               | 41495               |                     |          | Turn-up limit (dBm) | MPR (dB) |  |  |  |  |
| 15                   | QPSK       | 1       | 0         | 24.32                       | 24.29               | 24.63               | 24.73               | 24.84               | 24.98               | 25.6                | 0        |                     |          |  |  |  |  |
| 15                   | QPSK       | 1       | 37        | 24.27                       | 24.27               | 24.68               | 24.78               | 24.71               | 24.96               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 1       | 74        | 24.17                       | 24.32               | 24.56               | 24.66               | 24.68               | 24.81               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 0         | 24.25                       | 24.30               | 24.66               | 24.77               | 24.61               | 24.93               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 20        | 24.33                       | 24.31               | 24.64               | 24.73               | 24.61               | 24.82               | 25.6                | 0        |                     |          |  |  |  |  |
| 15                   | QPSK       | 36      | 39        | 24.21                       | 24.28               | 24.51               | 24.72               | 24.51               | 24.91               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 75      | 0         | 24.15                       | 24.16               | 24.61               | 24.60               | 24.62               | 24.87               |                     |          |                     |          |  |  |  |  |
| 15                   | QPSK       | 75      | 24        | 24.23                       | 24.29               | 24.65               | 24.76               | 24.62               | 24.87               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 24.17                       | 24.25               | 24.62               | 24.66               | 24.67               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 24.13                       | 24.20               | 24.71               | 24.62               | 24.64               | 24.80               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 24.20                       | 24.38               | 24.64               | 24.66               | 24.63               | 24.88               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 24.32                       | 24.30               | 24.65               | 24.74               | 24.69               | 24.92               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 24.28                       | 24.30               | 24.74               | 24.72               | 24.73               | 24.93               | 25.6                | 0        |                     |          |  |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 24.25                       | 24.25               | 24.67               | 24.70               | 24.60               | 24.93               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 27        | 24.28                       | 24.31               | 24.65               | 24.76               | 24.62               | 24.85               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 24.28                       | 24.26               | 24.69               | 24.65               | 24.61               | 24.84               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 24.31                       | 24.16               | 24.51               | 24.75               | 24.52               | 24.87               | 25.6                | 0        |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 24.00                       | 23.98               | 24.37               | 24.76               | 24.42               | 24.55               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 24.32                       | 24.30               | 24.65               | 24.72               | 24.61               | 24.86               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 24.24                       | 24.20               | 24.57               | 24.76               | 24.47               | 24.87               |                     |          |                     |          |  |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 24.29                       | 24.15               | 24.67               | 24.76               | 24.47               | 24.70               | 23                  | 2.6      |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 0         | 22.01                       | 22.04               | 22.23               | 22.57               | 22.42               | 22.45               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 37        | 21.96                       | 22.02               | 21.93               | 22.62               | 22.30               | 22.51               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 1       | 74        | 21.83                       | 22.05               | 22.13               | 22.62               | 22.35               | 22.51               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 0         | 21.78                       | 22.07               | 22.06               | 22.71               | 22.35               | 22.50               | 23                  | 2.6      |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 20        | 22.04                       | 22.04               | 22.06               | 22.46               | 22.29               | 22.54               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 36      | 39        | 21.83                       | 21.94               | 22.01               | 22.66               | 22.29               | 22.44               |                     |          |                     |          |  |  |  |  |
| 15                   | 256QAM     | 75      | 0         | 21.77                       | 21.89               | 21.81               | 22.23               | 22.23               | 22.44               |                     |          |                     |          |  |  |  |  |
| Channel              |            |         |           |                             |                     |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |
| Frequency (MHz)      |            |         |           | 39790                       | 39750               | 40105               | 40620               | 41058               | 41490               | Turn-up limit (dBm) | MPR (dB) |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 0         | 24.25                       | 24.13               | 24.58               | 24.68               | 24.63               | 24.77               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 25        | 24.30                       | 24.28               | 24.75               | 24.85               | 24.68               | 24.97               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 1       | 49        | 24.19                       | 24.31               | 24.56               | 24.61               | 24.68               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 25      | 12        | 24.24                       | 24.30               | 24.55               | 24.73               | 24.54               | 24.84               |                     |          |                     |          |  |  |  |  |
| 10                   | QPSK       | 25      | 25        | 24.18                       | 24.32               | 24.53               | 24.69               | 24.53               | 24.81               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | QPSK       | 50      | 0         | 24.20                       | 24.24               | 24.66               | 24.66               | 24.63               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 24.21                       | 24.27               | 24.65               | 24.72               | 24.63               | 24.93               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.23                       | 24.26               | 24.68               | 24.62               | 24.66               | 24.80               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               | 24.65               | 24.75               | 24.64               | 24.94               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 24.20                       | 24.38               | 24.67               | 24.76               | 24.65               | 24.89               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 24.32                       | 24.32               | 24.65               | 24.73               | 24.68               | 24.91               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 24        | 24.20                       | 24.25               | 24.68               | 24.64               | 24.67               | 24.91               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 50      | 50        | 24.14                       | 24.22               | 24.65               | 24.72               | 24.62               | 24.90               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 24.22                       | 24.20               | 24.71               | 24.69               | 24.67               | 24.83               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 24.15                       | 24.22               | 24.59               | 24.65               | 24.68               | 24.80               | 25.6                | 0        |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 24.08                       | 24.03               | 24.46               | 24.66               | 24.36               | 24.60               |                     |          |                     |          |  |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 24.33                       | 24.34               |                     |                     |                     |                     |                     |          |                     |          |  |  |  |  |

| Band 41_Ant 2 |                 |         |           |                           |                     |                         |                          |                      |                      |                    |          |  |
|---------------|-----------------|---------|-----------|---------------------------|---------------------|-------------------------|--------------------------|----------------------|----------------------|--------------------|----------|--|
| BW [MHz]      | Modulation      | RB Size | RB Offset | Fd IC Power Low Ch / Freq | Power Low Ch / Freq | Power Low Mid Ch / Freq | Power Low High Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-on time (dBm) | MPR (dB) |  |
| Channel       |                 |         |           |                           |                     |                         |                          |                      |                      |                    |          |  |
|               | Frequency (MHz) |         |           | 39750                     | 39750               | 40185                   | 40620                    | 41055                | 41490                |                    |          |  |
| 20            | QPSK            | 1       | 0         | 2510                      | 2506                | 2548.5                  | 2593                     | 2636.5               | 2680                 |                    |          |  |
| 20            | QPSK            | 1       | 49        | 2532                      | 2536                | 2532                    | 2535                     | 2533                 | 2533                 |                    |          |  |
| 20            | QPSK            | 1       | 99        | 2538                      | 2535                | 2527                    | 2547                     | 2527                 | 2533                 |                    |          |  |
| 20            | QPSK            | 50      | 0         | 2523                      | 2516                | 2545                    | 2549                     | 2532                 | 2538                 |                    |          |  |
| 20            | QPSK            | 50      | 24        | 2518                      | 2516                | 2545                    | 2549                     | 2532                 | 2538                 |                    |          |  |
| 20            | QPSK            | 50      | 50        | 2508                      | 2512                | 2537                    | 2548                     | 2532                 | 2538                 |                    |          |  |
| 20            | QPSK            | 100     | 0         | 2518                      | 2520                | 2540                    | 2547                     | 2530                 | 2532                 |                    |          |  |
| 20            | 16QAM           | 1       | 0         | 2530                      | 2530                | 2533                    | 2531                     | 2535                 | 2535                 |                    |          |  |
| 20            | 16QAM           | 1       | 49        | 2535                      | 2536                | 2534                    | 2535                     | 2533                 | 2533                 |                    |          |  |
| 20            | 16QAM           | 1       | 99        | 2532                      | 2532                | 2543                    | 2545                     | 2539                 | 2535                 |                    |          |  |
| 20            | 16QAM           | 50      | 0         | 2211                      | 2207                | 2231                    | 2247                     | 2217                 | 2225                 |                    |          |  |
| 20            | 16QAM           | 50      | 24        | 2227                      | 2221                | 2246                    | 2252                     | 2239                 | 2242                 |                    |          |  |
| 20            | 16QAM           | 50      | 50        | 2225                      | 2223                | 2246                    | 2252                     | 2237                 | 2248                 |                    |          |  |
| 20            | 16QAM           | 100     | 0         | 2223                      | 2223                | 2243                    | 2251                     | 2232                 | 2236                 |                    |          |  |
| 20            | 64QAM           | 1       | 0         | 2187                      | 2188                | 2212                    | 2231                     | 2202                 | 2215                 |                    |          |  |
| 20            | 64QAM           | 1       | 49        | 2208                      | 2201                | 2232                    | 2245                     | 2213                 | 2221                 |                    |          |  |
| 20            | 64QAM           | 1       | 99        | 2207                      | 2214                | 2229                    | 2243                     | 2198                 | 2228                 |                    |          |  |
| 20            | 64QAM           | 50      | 0         | 2113                      | 2109                | 2133                    | 2146                     | 2111                 | 2125                 |                    |          |  |
| 20            | 64QAM           | 50      | 24        | 2124                      | 2124                | 2141                    | 2153                     | 2114                 | 2141                 |                    |          |  |
| 20            | 64QAM           | 50      | 50        | 2126                      | 2127                | 2148                    | 2154                     | 2107                 | 2144                 |                    |          |  |
| 20            | 64QAM           | 100     | 0         | 2120                      | 2120                | 2143                    | 2153                     | 2114                 | 2142                 |                    |          |  |
| 20            | 256QAM          | 1       | 0         | 1876                      | 1874                | 1890                    | 1921                     | 1882                 | 1895                 |                    |          |  |
| 20            | 256QAM          | 1       | 49        | 1879                      | 1888                | 1894                    | 1908                     | 1882                 | 1895                 |                    |          |  |
| 20            | 256QAM          | 1       | 99        | 1871                      | 1879                | 1875                    | 1901                     | 1862                 | 1895                 |                    |          |  |
| 20            | 256QAM          | 50      | 0         | 1867                      | 1866                | 1864                    | 1869                     | 1865                 | 1867                 |                    |          |  |
| 20            | 256QAM          | 50      | 24        | 1863                      | 1864                | 1861                    | 1869                     | 1877                 | 1876                 |                    |          |  |
| 20            | 256QAM          | 50      | 50        | 1866                      | 1867                | 1864                    | 1869                     | 1875                 | 1874                 |                    |          |  |
| 20            | 256QAM          | 100     | 0         | 1878                      | 1868                | 1860                    | 1906                     | 1862                 | 1862                 |                    |          |  |
| Channel       |                 |         |           |                           |                     |                         |                          |                      |                      |                    |          |  |
|               | Frequency (MHz) |         |           | 39765                     | 39725               | 40173                   | 40620                    | 41068                | 41515                | Turn-on time (dBm) | MPR (dB) |  |
| 15            | QPSK            | 1       | 0         | 2507.5                    | 2503.5              | 2543.5                  | 2588                     | 2632.5               | 2677.5               |                    |          |  |
| 15            | QPSK            | 1       | 37        | 2292                      | 2292                | 2325                    | 2334                     | 2299                 | 2333                 |                    |          |  |
| 15            | QPSK            | 1       | 74        | 2307                      | 2299                | 2314                    | 2338                     | 2292                 | 2338                 |                    |          |  |
| 15            | QPSK            | 36      | 0         | 2306                      | 2312                | 2341                    | 2340                     | 2334                 | 2318                 |                    |          |  |
| 15            | QPSK            | 36      | 36        | 2305                      | 2307                | 2337                    | 2335                     | 2330                 | 2330                 |                    |          |  |
| 15            | QPSK            | 36      | 36        | 2295                      | 2300                | 2314                    | 2338                     | 2294                 | 2332                 |                    |          |  |
| 15            | QPSK            | 75      | 0         | 2301                      | 2308                | 2331                    | 2335                     | 2333                 | 2324                 |                    |          |  |
| 15            | 16QAM           | 1       | 0         | 2108                      | 2108                | 2134                    | 2132                     | 2118                 | 2120                 |                    |          |  |
| 15            | 16QAM           | 1       | 37        | 2299                      | 2287                | 2310                    | 2340                     | 2296                 | 2338                 |                    |          |  |
| 15            | 16QAM           | 1       | 74        | 2300                      | 2301                | 2338                    | 2331                     | 2286                 | 2317                 |                    |          |  |
| 15            | 16QAM           | 36      | 0         | 2195                      | 2195                | 2213                    | 2229                     | 2201                 | 2218                 |                    |          |  |
| 15            | 16QAM           | 36      | 36        | 2210                      | 2216                | 2232                    | 2233                     | 2216                 | 2231                 |                    |          |  |
| 15            | 16QAM           | 36      | 36        | 2215                      | 2215                | 2242                    | 2232                     | 2200                 | 2237                 |                    |          |  |
| 15            | 16QAM           | 75      | 0         | 2219                      | 2213                | 2226                    | 2234                     | 2217                 | 2224                 |                    |          |  |
| 15            | 16QAM           | 75      | 37        | 2206                      | 2206                | 2226                    | 2227                     | 2183                 | 2227                 |                    |          |  |
| 15            | 64QAM           | 1       | 0         | 2107                      | 2111                | 2219                    | 2233                     | 2179                 | 2232                 |                    |          |  |
| 15            | 64QAM           | 1       | 74        | 2121                      | 2120                | 2145                    | 2156                     | 2109                 | 2151                 |                    |          |  |
| 15            | 64QAM           | 36      | 0         | 2103                      | 2098                | 2115                    | 2135                     | 2098                 | 2135                 |                    |          |  |
| 15            | 64QAM           | 36      | 36        | 2114                      | 2114                | 2135                    | 2135                     | 2103                 | 2138                 |                    |          |  |
| 15            | 64QAM           | 36      | 36        | 2099                      | 2115                | 2137                    | 2145                     | 2095                 | 2134                 |                    |          |  |
| 15            | 256QAM          | 1       | 0         | 2117                      | 2119                | 2133                    | 2135                     | 2103                 | 2128                 |                    |          |  |
| 15            | 256QAM          | 1       | 49        | 1863                      | 1866                | 1869                    | 1907                     | 1877                 | 1884                 |                    |          |  |
| 15            | 256QAM          | 1       | 99        | 1864                      | 1864                | 1864                    | 1897                     | 1866                 | 1869                 |                    |          |  |
| 15            | 256QAM          | 50      | 0         | 1863                      | 1866                | 1863                    | 1866                     | 1868                 | 1863                 |                    |          |  |
| 15            | 256QAM          | 50      | 24        | 1865                      | 1848                | 1844                    | 1904                     | 1854                 | 1872                 |                    |          |  |
| 15            | 256QAM          | 50      | 50        | 1858                      | 1862                | 1862                    | 1862                     | 1864                 | 1862                 |                    |          |  |
| 15            | 256QAM          | 36      | 36        | 1858                      | 1855                | 1863                    | 1901                     | 1870                 | 1865                 |                    |          |  |
| 15            | 256QAM          | 75      | 0         | 1858                      | 1853                | 1858                    | 1893                     | 1845                 | 1874                 |                    |          |  |
| Channel       |                 |         |           |                           |                     |                         |                          |                      |                      |                    |          |  |
|               | Frequency (MHz) |         |           | 39740                     | 39700               | 40160                   | 40620                    | 41080                | 41540                | Turn-on time (dBm) | MPR (dB) |  |
| 10            | QPSK            | 1       | 0         | 2297                      | 2305                | 2315                    | 2315                     | 2287                 | 2324                 |                    |          |  |
| 10            | QPSK            | 1       | 25        | 2308                      | 2301                | 2330                    | 2333                     | 2293                 | 2330                 |                    |          |  |
| 10            | QPSK            | 1       | 49        | 2305                      | 2298                | 2321                    | 2336                     | 2289                 | 2333                 |                    |          |  |
| 10            | QPSK            | 1       | 99        | 2308                      | 2317                | 2342                    | 2338                     | 2293                 | 2330                 |                    |          |  |
| 10            | QPSK            | 25      | 12        | 2310                      | 2310                | 2330                    | 2336                     | 2291                 | 2322                 |                    |          |  |
| 10            | QPSK            | 25      | 25        | 2298                      | 2307                | 2328                    | 2338                     | 2298                 | 2325                 |                    |          |  |
| 10            | QPSK            | 50      | 0         | 2312                      | 2304                | 2333                    | 2339                     | 2298                 | 2322                 |                    |          |  |
| 10            | QPSK            | 50      | 24        | 2297                      | 2298                | 2330                    | 2336                     | 2293                 | 2322                 |                    |          |  |
| 10            | 16QAM           | 1       | 0         | 2314                      | 2308                | 2334                    | 2338                     | 2294                 | 2321                 |                    |          |  |
| 10            | 16QAM           | 1       | 49        | 2292                      | 2307                | 2331                    | 2333                     | 2281                 | 2321                 |                    |          |  |
| 10            | 16QAM           | 1       | 99        | 2310                      | 2317                | 2342                    | 2338                     | 2293                 | 2322                 |                    |          |  |
| 10            | 16QAM           | 25      | 12        | 2313                      | 2307                | 2327                    | 2340                     | 2293                 | 2326                 |                    |          |  |
| 10            | 16QAM           | 25      | 25        | 2292                      | 2313                | 2343                    | 2351                     | 2193                 | 2325                 |                    |          |  |
| 10            | 16QAM           | 50      | 0         | 2315                      | 2304                | 2326                    | 2331                     | 2194                 | 2321                 |                    |          |  |
| 10            | 16QAM           | 50      | 24        | 2296                      | 2313                | 2342                    | 2338                     | 2292                 | 2322                 |                    |          |  |
| 10            | 64QAM           | 1       | 0         | 2297                      | 2299                | 2319                    | 2330                     | 2194                 | 2323                 |                    |          |  |
| 10            | 64QAM           | 1       | 49        | 2199                      | 2200                | 2324                    | 2339                     | 2197                 | 2324                 |                    |          |  |
| 10            | 64QAM           | 1       | 99        | 2207                      | 2201                | 2341                    | 2350                     | 2198                 | 2324                 |                    |          |  |
| 10            | 64QAM           | 25      | 12        | 2121                      | 2121                | 2138                    | 2144                     | 2106                 | 2141                 |                    |          |  |
| 10            | 64QAM           | 25      | 25        | 2102                      | 2104                | 2141                    | 2152                     | 2096                 | 2133                 |                    |          |  |
| 10            | 64QAM           | 50      | 0         | 2104                      | 2104                | 2141                    | 2152                     | 2096                 | 2133                 |                    |          |  |
| 10            | 256QAM          | 1       | 0         | 1868                      | 1855                | 1862                    | 1915                     | 1878                 | 1892                 |                    |          |  |
| 10            | 256QAM          | 1       | 25        | 1852                      | 1855                | 1860                    | 1903                     | 1869                 | 1879                 |                    |          |  |
| 10            | 256QAM          | 1       | 49        | 1854                      | 1846                | 1844                    | 1881                     | 1859                 | 1884                 |                    |          |  |
| 10            | 256QAM          | 25      | 0         | 1862                      | 1856                | 1860                    | 1894                     | 1863                 | 1862                 |                    |          |  |
| 10            | 256QAM          | 25      | 12        | 1852                      | 1847                | 1839                    | 1896                     | 1869                 | 1879                 |                    |          |  |
| 10            | 256QAM          | 25      | 25        | 1853                      | 1838                | 1839                    | 1905                     | 1868                 | 1879                 |                    |          |  |
| 10            | 256QAM          | 50      | 0         | 1867                      | 1859                | 1841                    | 1864                     | 1860                 | 1870                 |                    |          |  |
| Channel       |                 |         |           |                           |                     |                         |                          |                      |                      |                    |          |  |
|               | Frequency (MHz) |         |           | 39715                     | 39675               | 40145                   | 40620                    | 41093                | 41555                | Turn-on time (dBm) | MPR (dB) |  |
| 5             | QPSK            | 1       | 0         | 2287                      | 2292                | 2320                    | 2331                     | 2292                 | 2312                 |                    |          |  |
| 5             | QPSK            | 1       | 12        | 2302                      | 2305                | 2331                    | 2349                     | 2293                 | 2332                 |                    |          |  |
| 5             | QPSK            | 1       | 24        | 2292                      | 2299                | 2320                    | 2327                     | 2283                 | 2320                 |                    |          |  |
| 5             | QPSK            | 12      | 0         | 2313                      | 2305                | 2336                    | 2341                     | 2307                 | 2318                 |                    |          |  |
| 5             | QPSK            | 12      | 7         | 2310                      | 2309                | 2337                    | 2342                     | 2292                 | 2308                 |                    |          |  |
| 5             | QPSK            | 12      | 13        | 2297                      | 2298                | 2323                    | 2330                     | 2286                 | 2318                 |                    |          |  |
| 5             | QPSK            | 26      | 0         | 2317                      | 2330                | 2330                    | 2327                     | 2308                 | 2314                 |                    |          |  |
| 5             | 16QAM           | 1       | 0         | 2281                      | 2301                | 2318                    | 2345                     | 2299                 | 2331                 |                    |          |  |
| 5             | 16QAM           | 1       | 12        | 2303                      | 2298                | 2322                    | 2337                     | 2292                 | 2318                 |                    |          |  |
| 5             | 16QAM           | 1       | 24        | 2295                      | 2301                | 2341                    | 2339                     | 2283                 | 2315                 |                    |          |  |
| 5             | 16QAM           | 12      | 0         | 2312                      | 2307                | 2332                    | 2337                     | 2303                 | 2319                 |                    |          |  |
| 5             | 16QAM           | 12      | 7         | 2213                      | 2205                | 2244                    | 2250                     | 2213                 | 2232                 |                    |          |  |
| 5             | 16QAM           | 12      | 13        | 2218                      | 2206                | 2234                    | 2244                     | 2188                 | 2240                 |                    |          |  |
| 5             | 16QAM           | 26      | 0         | 2311                      | 2307                | 2336                    | 2337                     | 2303                 | 2319                 |                    |          |  |
| 5             | 64QAM           | 1       | 0         | 2184                      | 2195                | 2209                    | 2227                     | 2194                 | 2211                 |                    |          |  |
| 5             | 64QAM           | 1       | 12        | 2192                      | 2190                | 2210                    | 2225                     | 2183                 | 2216                 |                    |          |  |
| 5             | 64QAM           | 1       | 24        | 2195                      | 2194                | 2228                    | 2230                     | 2191                 | 2239                 |                    |          |  |
| 5             | 64QAM           | 12      | 0         | 2190                      | 2199                | 2210                    | 2235                     | 2193                 | 2224                 |                    |          |  |
| 5             | 64QAM           | 12      | 7         | 2108                      | 2113                | 2137                    | 2134                     | 2099                 | 2138                 |                    |          |  |
| 5             | 64QAM           | 12      | 13        | 2101                      | 2108                | 2145                    | 2145                     | 2105                 | 2139                 |                    |          |  |
| 5             | 64QAM           | 26      | 0         | 2110                      | 2107                | 2134                    | 2136                     | 2107                 | 2133                 |                    |          |  |
| 5             | 256QAM          | 1       | 0         | 1863                      | 1872                | 1864                    | 1918                     | 1871                 | 1877                 |                    |          |  |
| 5             | 256QAM          | 1       | 12        | 1856                      | 1847                | 1858                    | 1913                     | 1875                 | 1867                 |                    |          |  |
| 5             | 256QAM          | 1       | 24        | 1865                      | 1852                | 1838                    | 1895                     | 1855                 | 1890                 |                    |          |  |
| 5             | 256QAM          | 12      | 0         | 1853                      | 1849                | 1849                    | 1908                     | 1860                 | 1869                 |                    |          |  |
| 5             | 256QAM          | 12      | 7         | 1850                      | 1848                | 1831                    | 1900                     | 1870                 | 1861                 |                    |          |  |
| 5             | 256QAM          | 12      | 13        | 1851                      | 1838                | 1837                    | 1901                     | 1862                 | 1876                 |                    |          |  |
| 5             | 256QAM          | 26      | 0         | 1870                      | 1856                | 1842                    | 1880                     | 1854                 | 1863                 |                    |          |  |

| Band 41 (HPUE)_Ant 2 |  |  |
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| Band 41 (HPUE)_Ant 6 |            |         |           |                     |                      |                     |                      |                     |                      |                              |                      |                     |          |
|----------------------|------------|---------|-----------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|------------------------------|----------------------|---------------------|----------|
| BW (MHz)             | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq          | Power High Ch / Freq | Turn-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                              |                      |                     |          |
| Frequency (MHz)      |            |         |           | 39750               | 39750                | 40185               | 40620                | 41055               | 41490                |                              |                      |                     |          |
| 20                   | QPSK       | 1       | 0         | 22.78               | 22.78                | 22.79               | 23.09                | 22.83               | 22.87                |                              |                      |                     |          |
| 20                   | QPSK       | 1       | 49        | 22.81               | 22.85                | 22.88               | 23.14                | 22.88               | 22.99                | 23.9                         |                      |                     |          |
| 20                   | QPSK       | 1       | 99        | 22.78               | 22.83                | 22.83               | 23.09                | 22.79               | 22.98                |                              |                      |                     |          |
| 20                   | QPSK       | 50      | 0         | 22.86               | 22.84                | 22.84               | 23.10                | 22.78               | 22.85                |                              |                      |                     |          |
| 20                   | QPSK       | 50      | 24        | 22.81               | 22.74                | 22.81               | 23.05                | 22.74               | 22.90                |                              |                      |                     |          |
| 20                   | QPSK       | 50      | 50        | 22.82               | 22.76                | 22.82               | 23.06                | 22.71               | 22.84                |                              |                      |                     |          |
| 20                   | QPSK       | 100     | 0         | 22.88               | 22.81                | 22.87               | 23.06                | 22.79               | 22.87                |                              |                      |                     |          |
| 20                   | 16QAM      | 1       | 0         | 22.80               | 22.85                | 22.83               | 23.09                | 22.76               | 22.96                |                              |                      |                     |          |
| 20                   | 16QAM      | 1       | 49        | 22.85               | 22.79                | 22.83               | 23.00                | 22.73               | 22.91                |                              |                      |                     |          |
| 20                   | 16QAM      | 1       | 99        | 22.77               | 22.83                | 22.76               | 23.11                | 22.75               | 22.93                |                              |                      |                     |          |
| 20                   | 16QAM      | 50      | 0         | 22.78               | 22.71                | 22.78               | 23.11                | 22.73               | 22.90                |                              |                      |                     |          |
| 20                   | 16QAM      | 50      | 24        | 22.80               | 22.81                | 22.82               | 23.04                | 22.87               | 22.89                |                              |                      |                     |          |
| 20                   | 16QAM      | 50      | 50        | 22.82               | 22.75                | 22.81               | 23.03                | 22.80               | 22.84                |                              |                      |                     |          |
| 20                   | 16QAM      | 100     | 0         | 22.85               | 22.85                | 22.83               | 23.13                | 22.83               | 22.84                |                              |                      |                     |          |
| 20                   | 64QAM      | 1       | 0         | 22.86               | 22.80                | 22.81               | 23.09                | 22.76               | 22.88                |                              |                      |                     |          |
| 20                   | 64QAM      | 1       | 49        | 22.87               | 22.82                | 22.80               | 23.03                | 22.73               | 22.91                |                              |                      |                     |          |
| 20                   | 64QAM      | 1       | 99        | 22.78               | 22.82                | 22.76               | 23.09                | 22.75               | 22.91                |                              |                      |                     |          |
| 20                   | 64QAM      | 50      | 0         | 21.83               | 21.88                | 21.83               | 21.67                | 21.56               | 21.47                |                              |                      |                     |          |
| 20                   | 64QAM      | 50      | 24        | 21.70               | 21.85                | 21.85               | 21.63                | 21.47               | 21.71                | 23.9                         |                      |                     |          |
| 20                   | 64QAM      | 50      | 50        | 21.87               | 21.87                | 21.78               | 21.63                | 21.67               | 21.64                |                              |                      |                     |          |
| 20                   | 64QAM      | 100     | 0         | 21.66               | 21.60                | 21.59               | 21.52                | 21.63               | 21.63                |                              |                      |                     |          |
| 20                   | 256QAM     | 1       | 0         | 19.23               | 19.20                | 19.24               | 19.42                | 19.30               | 19.31                |                              |                      |                     |          |
| 20                   | 256QAM     | 1       | 49        | 19.29               | 19.22                | 19.31               | 19.49                | 19.40               | 19.40                | 21.0                         |                      |                     |          |
| 20                   | 256QAM     | 1       | 99        | 19.24               | 19.29                | 19.34               | 19.43                | 19.39               | 19.37                |                              |                      |                     |          |
| 20                   | 256QAM     | 50      | 0         | 19.30               | 19.26                | 19.25               | 19.48                | 19.35               | 19.41                |                              |                      |                     |          |
| 20                   | 256QAM     | 50      | 24        | 19.32               | 19.23                | 19.33               | 19.46                | 19.31               | 19.41                |                              |                      |                     |          |
| 20                   | 256QAM     | 50      | 50        | 19.25               | 19.22                | 19.33               | 19.46                | 19.32               | 19.37                | 21.0                         |                      |                     |          |
| 20                   | 256QAM     | 100     | 0         | 19.29               | 19.27                | 19.33               | 19.52                | 19.40               | 19.38                |                              |                      |                     |          |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                              |                      |                     |          |
| Frequency (MHz)      |            |         |           | 39755               | 39725                | 40173               | 40620                | 41068               | 41515                | Turn-up limit (dBm) MPR (dB) |                      |                     |          |
| 15                   | QPSK       | 1       | 0         | 22.75               | 22.84                | 22.74               | 23.00                | 22.73               | 22.82                |                              |                      |                     |          |
| 15                   | QPSK       | 1       | 37        | 22.85               | 22.81                | 22.79               | 23.03                | 22.76               | 22.85                | 23.9                         |                      |                     |          |
| 15                   | QPSK       | 1       | 74        | 22.69               | 22.82                | 22.78               | 22.98                | 22.73               | 22.86                |                              |                      |                     |          |
| 15                   | QPSK       | 36      | 0         | 22.73               | 22.71                | 22.70               | 22.95                | 22.70               | 22.87                |                              |                      |                     |          |
| 15                   | QPSK       | 36      | 20        | 22.79               | 22.72                | 22.70               | 22.94                | 22.61               | 22.86                | 23.9                         |                      |                     |          |
| 15                   | QPSK       | 36      | 36        | 22.78               | 22.69                | 22.76               | 22.99                | 22.61               | 22.78                |                              |                      |                     |          |
| 15                   | QPSK       | 75      | 0         | 22.81               | 22.68                | 22.84               | 23.02                | 22.69               | 22.72                |                              |                      |                     |          |
| 15                   | QPSK       | 75      | 1         | 22.73               | 22.76                | 22.73               | 23.03                | 22.68               | 22.83                |                              |                      |                     |          |
| 15                   | 16QAM      | 1       | 37        | 22.69               | 22.70                | 22.76               | 22.93                | 22.60               | 22.78                |                              |                      |                     |          |
| 15                   | 16QAM      | 1       | 74        | 22.66               | 22.82                | 22.73               | 23.01                | 22.70               | 22.90                |                              |                      |                     |          |
| 15                   | 16QAM      | 36      | 0         | 22.75               | 22.69                | 22.76               | 22.98                | 22.63               | 22.85                |                              |                      |                     |          |
| 15                   | 16QAM      | 36      | 20        | 22.68               | 22.72                | 22.78               | 22.99                | 22.73               | 22.91                |                              |                      |                     |          |
| 15                   | 16QAM      | 36      | 36        | 22.67               | 22.73                | 22.68               | 23.01                | 22.72               | 22.73                |                              |                      |                     |          |
| 15                   | 16QAM      | 75      | 0         | 22.78               | 22.81                | 22.79               | 23.00                | 22.74               | 22.72                |                              |                      |                     |          |
| 15                   | 64QAM      | 1       | 0         | 22.84               | 22.76                | 22.70               | 23.02                | 22.71               | 22.73                |                              |                      |                     |          |
| 15                   | 64QAM      | 1       | 37        | 22.79               | 22.76                | 22.66               | 23.02                | 22.67               | 22.77                | 23.9                         |                      |                     |          |
| 15                   | 64QAM      | 1       | 74        | 22.76               | 22.68                | 22.73               | 23.01                | 22.68               | 22.83                |                              |                      |                     |          |
| 15                   | 64QAM      | 36      | 0         | 21.56               | 21.48                | 21.52               | 21.67                | 21.47               | 21.42                |                              |                      |                     |          |
| 15                   | 64QAM      | 36      | 20        | 21.60               | 21.43                | 21.57               | 21.58                | 21.43               | 21.63                | 23.9                         |                      |                     |          |
| 15                   | 64QAM      | 36      | 36        | 21.45               | 21.48                | 21.67               | 21.52                | 21.56               | 21.58                |                              |                      |                     |          |
| 15                   | 64QAM      | 75      | 0         | 21.80               | 21.54                | 21.48               | 21.41                | 21.56               | 21.57                |                              |                      |                     |          |
| 15                   | 256QAM     | 1       | 0         | 19.15               | 19.16                | 19.19               | 19.39                | 19.18               | 19.20                |                              |                      |                     |          |
| 15                   | 256QAM     | 1       | 49        | 19.22               | 19.10                | 19.23               | 19.42                | 19.33               | 19.35                | 21.0                         |                      |                     |          |
| 15                   | 256QAM     | 1       | 99        | 19.13               | 19.25                | 19.22               | 19.34                | 19.27               | 19.25                |                              |                      |                     |          |
| 15                   | 256QAM     | 50      | 0         | 19.20               | 19.22                | 19.19               | 19.41                | 19.28               | 19.38                |                              |                      |                     |          |
| 15                   | 256QAM     | 50      | 24        | 19.23               | 19.12                | 19.25               | 19.41                | 19.24               | 19.33                |                              |                      |                     |          |
| 15                   | 256QAM     | 50      | 50        | 19.22               | 19.14                | 19.25               | 19.36                | 19.24               | 19.28                | 21.0                         |                      |                     |          |
| 15                   | 256QAM     | 75      | 0         | 19.19               | 19.19                | 19.25               | 19.44                | 19.33               | 19.24                |                              |                      |                     |          |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                              |                      |                     |          |
| Frequency (MHz)      |            |         |           | 39740               | 39700                | 40160               | 40620                | 41080               | 41540                | Turn-up limit (dBm) MPR (dB) |                      |                     |          |
| 10                   | QPSK       | 1       | 0         | 22.63               | 22.72                | 22.74               | 23.00                | 22.70               | 22.82                |                              |                      |                     |          |
| 10                   | QPSK       | 1       | 25        | 22.90               | 22.72                | 22.84               | 23.00                | 22.73               | 22.84                | 23.9                         |                      |                     |          |
| 10                   | QPSK       | 1       | 49        | 22.74               | 22.72                | 22.71               | 22.97                | 22.69               | 22.87                |                              |                      |                     |          |
| 10                   | QPSK       | 24      | 0         | 22.86               | 22.74                | 22.74               | 23.03                | 22.68               | 22.96                |                              |                      |                     |          |
| 10                   | QPSK       | 25      | 12        | 22.77               | 22.66                | 22.71               | 22.91                | 22.59               | 22.81                |                              |                      |                     |          |
| 10                   | QPSK       | 25      | 25        | 22.80               | 22.66                | 22.70               | 23.04                | 22.62               | 22.74                | 23.9                         |                      |                     |          |
| 10                   | QPSK       | 50      | 0         | 22.87               | 22.69                | 22.74               | 23.05                | 22.64               | 22.86                |                              |                      |                     |          |
| 10                   | 16QAM      | 1       | 25        | 22.79               | 22.78                | 22.78               | 23.09                | 22.73               | 22.84                |                              |                      |                     |          |
| 10                   | 16QAM      | 1       | 25        | 22.80               | 22.66                | 22.68               | 23.08                | 22.56               | 22.78                | 23.9                         |                      |                     |          |
| 10                   | 16QAM      | 1       | 49        | 22.64               | 22.70                | 22.64               | 23.07                | 22.66               | 22.85                |                              |                      |                     |          |
| 10                   | 16QAM      | 25      | 0         | 21.99               | 21.61                | 21.58               | 21.64                | 21.49               | 21.43                |                              |                      |                     |          |
| 10                   | 16QAM      | 25      | 12        | 21.85               | 21.49                | 21.77               | 21.59                | 21.41               | 21.60                |                              |                      |                     |          |
| 10                   | 16QAM      | 25      | 25        | 21.52               | 21.47                | 21.75               | 21.57                | 21.62               | 21.56                | 23.9                         |                      |                     |          |
| 10                   | 64QAM      | 50      | 0         | 21.63               | 21.63                | 21.51               | 21.49                | 21.57               | 21.68                |                              |                      |                     |          |
| 10                   | 256QAM     | 1       | 0         | 19.13               | 19.11                | 19.20               | 19.33                | 19.16               | 19.21                |                              |                      |                     |          |
| 10                   | 256QAM     | 1       | 25        | 19.26               | 19.13                | 19.26               | 19.44                | 19.33               | 19.32                | 21.0                         |                      |                     |          |
| 10                   | 256QAM     | 1       | 49        | 19.18               | 19.17                | 19.31               | 19.36                | 19.36               | 19.27                |                              |                      |                     |          |
| 10                   | 256QAM     | 25      | 0         | 19.25               | 19.23                | 19.26               | 19.40                | 19.23               | 19.30                |                              |                      |                     |          |
| 10                   | 256QAM     | 25      | 12        | 19.28               | 19.14                | 19.21               | 19.35                | 19.22               | 19.38                | 21.0                         |                      |                     |          |
| 10                   | 256QAM     | 25      | 25        | 19.14               | 19.13                | 19.28               | 19.38                | 19.31               | 19.33                |                              |                      |                     |          |
| 10                   | 256QAM     | 50      | 0         | 19.20               | 19.15                | 19.21               | 19.44                | 19.36               | 19.30                |                              |                      |                     |          |
| Channel              |            |         |           |                     |                      |                     |                      |                     |                      |                              |                      |                     |          |
| Frequency (MHz)      |            |         |           | 39755               | 39675                | 40148               | 40620                | 41080               | 41555                | Turn-up limit (dBm) MPR (dB) |                      |                     |          |
| 5                    | QPSK       | 1       | 0         | 22.77               | 22.75                | 22.71               | 23.07                | 22.73               | 22.90                |                              |                      |                     |          |
| 5                    | QPSK       | 1       | 12        | 22.81               | 22.85                | 22.87               | 23.03                | 22.73               | 22.92                |                              |                      |                     |          |
| 5                    | QPSK       | 1       | 24        | 22.78               | 22.71                | 22.68               | 23.02                | 22.75               | 22.94                |                              |                      |                     |          |
| 5                    | QPSK       | 12      | 0         | 22.78               | 22.78                | 22.78               | 23.06                | 22.67               | 22.89                |                              |                      |                     |          |
| 5                    | QPSK       | 12      | 7         | 22.69               | 22.69                | 22.67               | 22.81                | 22.61               | 22.89                | 23.9                         |                      |                     |          |
| 5                    | QPSK       | 12      | 13        | 22.69               | 22.68                | 22.74               | 23.00                | 22.56               | 22.80                |                              |                      |                     |          |
| 5                    | QPSK       | 25      | 0         | 22.75               | 22.75                | 22.77               | 23.05                | 22.71               | 22.83                |                              |                      |                     |          |
| 5                    | QPSK       | 25      | 13        | 22.68               | 22.71                | 22.79               | 23.03                | 22.74               | 22.87                |                              |                      |                     |          |
| 5                    | QPSK       | 25      | 25        | 22.77               | 22.67                | 22.74               | 23.06                | 22.66               | 22.87                |                              |                      |                     |          |
| 5                    | 16QAM      | 1       | 24        | 22.74               | 22.76                | 22.63               | 22.98                | 22.60               | 22.86                |                              |                      |                     |          |
| 5                    | 16QAM      | 12      | 0         | 22.70               | 22.69                | 22.77               | 23.04                | 22.71               | 22.83                |                              |                      |                     |          |
| 5                    | 16QAM      | 12      | 7         | 22.73               | 22.68                | 22.76               | 23.02                | 22.66               | 22.84                |                              |                      |                     |          |
| 5                    | 16QAM      | 25      | 0         | 22.68               | 22.65                | 22.76               | 23.09                | 22.59               | 22.86                |                              |                      |                     |          |
| 5                    | 16QAM      | 25      | 13        | 22.81               | 22.72                | 22.77               | 23.08                | 22.77               | 22.82                |                              |                      |                     |          |
| 5                    | 64QAM      | 1       | 0         | 22.79               | 22.69                | 22.71               | 23.05                | 22.67               | 22.85                |                              |                      |                     |          |
| 5                    | 64QAM      | 1       | 12        | 22.82               | 22.76                | 22.79               | 23.08                | 22.68               | 22.86                |                              |                      |                     |          |
| 5                    | 64QAM      | 1       | 24        | 22.67               | 22.69                | 22.64               | 22.99                | 22.74               | 22.81                |                              |                      |                     |          |
| 5                    | 64QAM      | 12      | 0         | 21.51               | 21.51                | 21.61               | 21.61                | 21.49               | 21.39                |                              |                      |                     |          |
| 5                    | 64QAM      | 12      | 7         | 21.62               | 21.45                | 21.82               | 21.67                | 21.39               | 21.67                | 23.9                         |                      |                     |          |
| 5                    | 64QAM      | 12      | 13        | 21.46               | 21.53                | 21.73               | 21.57                | 21.43               | 21.56                |                              |                      |                     |          |
| 5                    | 256QAM     | 1       | 0         | 19.12               | 19.16                | 19.14               | 19.23                | 19.13               | 19.25                |                              |                      |                     |          |
| 5                    | 256QAM     | 1       | 12        | 19.19               | 19.15                | 19.20               | 19.34                | 19.19               | 19.20                |                              |                      |                     |          |
| 5                    | 256QAM     | 1       | 24        | 19.20               | 19.13                | 19.24               | 19.43                | 19.28               | 19.33                | 21.0                         |                      |                     |          |
| 5                    | 256QAM     | 1       | 49        | 19.20               | 19.21                | 19.21               | 19.34                | 19.28               | 19.24                |                              |                      |                     |          |
| 5                    | 256QAM     | 12      | 0         | 19.18               | 19.18                | 19.18               | 19.44                | 19.27               | 19.34                |                              |                      |                     |          |
| 5                    | 256QAM     | 12      | 7         | 19.29               | 19.14                | 19.24               | 19.37                | 19.27               | 19.30                | 21.0                         |                      |                     |          |
| 5                    | 256QAM     | 12      | 13        | 19.18               | 19.19                | 19.28               | 19.43                | 19.29               | 19.30                |                              |                      |                     |          |
| 5                    | 256QAM     | 25      | 0         | 19.20               | 19.19                | 19.29               | 19.40                | 19.31               | 19.32                |                              |                      |                     |          |



| Band 48_Ant 10  |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
|-----------------|------------|---------|-----------|---------------------|-------------------------|----------------------|--------------------------|---------------------|----------|---|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Mid-Ch./Freq. | Power High Ch./Freq. | Power High Mid-Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |   |  |  |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| 20              | QPSK       | 1       | 0         | 17.81               | 18.02                   | 17.89                | 18.02                    | 19                  | 0        |   |  |  |
| 20              | QPSK       | 1       | 49        | 17.80               | 18.13                   | 18.05                | 18.05                    |                     |          |   |  |  |
| 20              | QPSK       | 1       | 99        | 17.75               | 18.00                   | 17.90                | 17.90                    |                     |          |   |  |  |
| 20              | QPSK       | 50      | 0         | 17.89               | 18.12                   | 17.99                | 18.02                    |                     |          |   |  |  |
| 20              | QPSK       | 50      | 24        | 17.83               | 18.04                   | 17.92                | 17.92                    | 19                  | 0        |   |  |  |
| 20              | QPSK       | 50      | 50        | 17.90               | 18.08                   | 17.88                | 17.88                    |                     |          |   |  |  |
| 20              | QPSK       | 100     | 0         | 17.78               | 18.01                   | 17.98                | 17.91                    |                     |          |   |  |  |
| 20              | 16QAM      | 1       | 0         | 17.80               | 17.91                   | 17.80                | 17.89                    |                     |          |   |  |  |
| 20              | 16QAM      | 1       | 49        | 17.81               | 18.08                   | 17.87                | 17.95                    | 19                  | 0        |   |  |  |
| 20              | 16QAM      | 1       | 99        | 17.80               | 17.97                   | 17.85                | 17.84                    |                     |          |   |  |  |
| 20              | 16QAM      | 50      | 0         | 17.74               | 18.07                   | 17.85                | 17.92                    |                     |          |   |  |  |
| 20              | 16QAM      | 50      | 24        | 17.77               | 17.97                   | 17.80                | 17.82                    |                     | 19       | 0 |  |  |
| 20              | 16QAM      | 50      | 50        | 17.74               | 17.99                   | 17.80                | 17.86                    |                     |          |   |  |  |
| 20              | 16QAM      | 100     | 0         | 17.75               | 17.96                   | 17.83                | 17.77                    |                     |          |   |  |  |
| 20              | 64QAM      | 1       | 0         | 17.78               | 17.88                   | 17.74                | 17.87                    | 19                  | 0        |   |  |  |
| 20              | 64QAM      | 1       | 49        | 17.80               | 18.06                   | 17.90                | 17.97                    |                     |          |   |  |  |
| 20              | 64QAM      | 1       | 99        | 17.83               | 17.86                   | 17.82                | 17.75                    |                     |          |   |  |  |
| 20              | 64QAM      | 50      | 0         | 17.80               | 18.02                   | 17.86                | 17.90                    |                     | 19       | 0 |  |  |
| 20              | 64QAM      | 50      | 24        | 17.76               | 18.03                   | 17.83                | 17.84                    |                     |          |   |  |  |
| 20              | 64QAM      | 50      | 50        | 17.85               | 18.00                   | 17.80                | 17.89                    |                     |          |   |  |  |
| 20              | 64QAM      | 100     | 0         | 17.77               | 17.91                   | 17.82                | 17.84                    |                     |          |   |  |  |
| 20              | 256QAM     | 1       | 0         | 17.86               | 18.06                   | 17.92                | 17.99                    | 19                  | 0        |   |  |  |
| 20              | 256QAM     | 1       | 49        | 17.88               | 18.06                   | 17.92                | 17.99                    |                     |          |   |  |  |
| 20              | 256QAM     | 1       | 99        | 17.85               | 17.93                   | 17.79                | 17.80                    |                     |          |   |  |  |
| 20              | 256QAM     | 50      | 0         | 17.80               | 18.02                   | 17.88                | 17.90                    |                     |          |   |  |  |
| 20              | 256QAM     | 50      | 24        | 17.76               | 17.96                   | 17.77                | 17.85                    | 19                  | 0        |   |  |  |
| 20              | 256QAM     | 50      | 50        | 17.82               | 18.04                   | 17.79                | 17.86                    |                     |          |   |  |  |
| 20              | 256QAM     | 100     | 0         | 17.69               | 17.87                   | 17.87                | 17.79                    |                     |          |   |  |  |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| 35              | QPSK       | 1       | 0         | 17.55               | 18.02                   | 18.10                | 18.02                    | 19                  | 0        |   |  |  |
| 15              | QPSK       | 1       | 0         | 17.75               | 18.01                   | 17.82                | 17.91                    |                     |          |   |  |  |
| 15              | QPSK       | 1       | 37        | 17.86               | 18.05                   | 17.99                | 18.04                    |                     |          |   |  |  |
| 15              | QPSK       | 1       | 74        | 17.66               | 17.87                   | 17.85                | 17.82                    |                     |          |   |  |  |
| 15              | QPSK       | 36      | 0         | 17.80               | 18.06                   | 17.92                | 17.96                    | 19                  | 0        |   |  |  |
| 15              | QPSK       | 36      | 20        | 17.78               | 17.96                   | 17.86                | 17.88                    |                     |          |   |  |  |
| 15              | QPSK       | 36      | 39        | 17.77               | 17.96                   | 17.77                | 17.91                    |                     |          |   |  |  |
| 15              | QPSK       | 75      | 0         | 17.68               | 17.96                   | 17.84                | 17.77                    |                     |          |   |  |  |
| 15              | 16QAM      | 1       | 0         | 17.80               | 18.00                   | 17.76                | 17.89                    | 19                  | 0        |   |  |  |
| 15              | 16QAM      | 1       | 37        | 17.87               | 18.04                   | 17.99                | 17.91                    |                     |          |   |  |  |
| 15              | 16QAM      | 1       | 74        | 17.71               | 17.87                   | 17.89                | 17.86                    |                     |          |   |  |  |
| 15              | 16QAM      | 36      | 0         | 17.83               | 17.98                   | 17.83                | 17.94                    |                     |          |   |  |  |
| 15              | 16QAM      | 36      | 20        | 17.74               | 17.94                   | 17.87                | 17.83                    |                     | 19       | 0 |  |  |
| 15              | 16QAM      | 36      | 39        | 17.82               | 17.95                   | 17.78                | 17.84                    |                     |          |   |  |  |
| 15              | 16QAM      | 75      | 0         | 17.69               | 17.86                   | 17.85                | 17.80                    |                     |          |   |  |  |
| 15              | 64QAM      | 1       | 0         | 17.73               | 18.03                   | 17.98                | 17.97                    | 19                  | 0        |   |  |  |
| 15              | 64QAM      | 1       | 37        | 17.83               | 18.03                   | 17.98                | 17.97                    |                     |          |   |  |  |
| 15              | 64QAM      | 1       | 74        | 17.64               | 17.85                   | 17.80                | 17.85                    |                     |          |   |  |  |
| 15              | 64QAM      | 36      | 0         | 17.81               | 17.97                   | 17.86                | 17.89                    |                     |          |   |  |  |
| 15              | 64QAM      | 36      | 20        | 17.81               | 18.03                   | 17.82                | 17.88                    | 19                  | 0        |   |  |  |
| 15              | 64QAM      | 36      | 39        | 17.76               | 17.98                   | 17.73                | 17.89                    |                     |          |   |  |  |
| 15              | 64QAM      | 75      | 0         | 17.67               | 17.91                   | 17.92                | 17.76                    |                     |          |   |  |  |
| 15              | 256QAM     | 1       | 0         | 17.80               | 17.88                   | 17.74                | 17.89                    |                     |          |   |  |  |
| 15              | 256QAM     | 1       | 37        | 17.79               | 17.98                   | 17.80                | 18.01                    | 19                  | 0        |   |  |  |
| 15              | 256QAM     | 1       | 74        | 17.70               | 17.93                   | 17.75                | 17.82                    |                     |          |   |  |  |
| 15              | 256QAM     | 36      | 0         | 17.86               | 18.01                   | 17.90                | 17.94                    |                     |          |   |  |  |
| 15              | 256QAM     | 36      | 20        | 17.69               | 17.95                   | 17.85                | 17.84                    |                     | 19       | 0 |  |  |
| 15              | 256QAM     | 36      | 39        | 17.82               | 18.07                   | 17.79                | 17.92                    |                     |          |   |  |  |
| 15              | 256QAM     | 75      | 0         | 17.77               | 17.95                   | 17.95                | 17.77                    |                     |          |   |  |  |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| 35              | QPSK       | 1       | 0         | 17.67               | 17.94                   | 17.82                | 17.96                    | 19                  | 0        |   |  |  |
| 10              | QPSK       | 1       | 25        | 17.77               | 18.07                   | 17.87                | 17.94                    |                     |          |   |  |  |
| 10              | QPSK       | 1       | 49        | 17.73               | 17.86                   | 17.79                | 17.86                    |                     |          |   |  |  |
| 10              | QPSK       | 25      | 0         | 17.80               | 18.11                   | 17.90                | 17.89                    |                     |          |   |  |  |
| 10              | QPSK       | 25      | 12        | 17.71               | 18.00                   | 17.88                | 17.92                    | 19                  | 0        |   |  |  |
| 10              | QPSK       | 25      | 25        | 17.73               | 18.03                   | 17.79                | 17.88                    |                     |          |   |  |  |
| 10              | QPSK       | 50      | 0         | 17.63               | 17.90                   | 17.86                | 17.84                    |                     |          |   |  |  |
| 10              | 16QAM      | 1       | 0         | 17.92               | 18.01                   | 17.80                | 17.93                    |                     |          |   |  |  |
| 10              | 16QAM      | 1       | 25        | 17.78               | 18.00                   | 17.91                | 18.01                    | 19                  | 0        |   |  |  |
| 10              | 16QAM      | 1       | 49        | 17.62               | 17.99                   | 17.83                | 17.88                    |                     |          |   |  |  |
| 10              | 16QAM      | 25      | 0         | 17.75               | 18.03                   | 17.86                | 17.94                    |                     |          |   |  |  |
| 10              | 16QAM      | 25      | 12        | 17.81               | 18.03                   | 17.91                | 17.93                    |                     | 19       | 0 |  |  |
| 10              | 16QAM      | 25      | 25        | 17.79               | 18.00                   | 17.77                | 17.97                    |                     |          |   |  |  |
| 10              | 16QAM      | 50      | 0         | 17.69               | 18.00                   | 17.95                | 17.89                    |                     |          |   |  |  |
| 10              | 64QAM      | 1       | 0         | 17.61               | 17.87                   | 17.81                | 18.01                    | 19                  | 0        |   |  |  |
| 10              | 64QAM      | 1       | 25        | 17.85               | 18.11                   | 17.92                | 18.02                    |                     |          |   |  |  |
| 10              | 64QAM      | 1       | 49        | 17.69               | 17.97                   | 17.78                | 17.85                    |                     |          |   |  |  |
| 10              | 64QAM      | 25      | 0         | 17.76               | 18.06                   | 17.96                | 17.87                    |                     |          |   |  |  |
| 10              | 64QAM      | 25      | 12        | 17.82               | 17.95                   | 17.88                | 17.91                    | 19                  | 0        |   |  |  |
| 10              | 64QAM      | 25      | 25        | 17.79               | 17.98                   | 17.78                | 17.85                    |                     |          |   |  |  |
| 10              | 64QAM      | 50      | 0         | 17.75               | 17.94                   | 17.91                | 17.82                    |                     |          |   |  |  |
| 10              | 256QAM     | 1       | 0         | 17.71               | 18.00                   | 17.88                | 17.94                    |                     | 19       | 0 |  |  |
| 10              | 256QAM     | 1       | 25        | 17.85               | 18.05                   | 17.90                | 18.04                    |                     |          |   |  |  |
| 10              | 256QAM     | 1       | 49        | 17.72               | 17.90                   | 17.80                | 17.83                    |                     |          |   |  |  |
| 10              | 256QAM     | 25      | 0         | 17.67               | 18.03                   | 17.93                | 17.99                    |                     |          |   |  |  |
| 10              | 256QAM     | 25      | 12        | 17.71               | 18.01                   | 17.89                | 17.81                    | 19                  | 0        |   |  |  |
| 10              | 256QAM     | 25      | 25        | 17.73               | 18.06                   | 17.82                | 17.88                    |                     |          |   |  |  |
| 10              | 256QAM     | 50      | 0         | 17.67               | 17.95                   | 17.84                | 17.88                    |                     |          |   |  |  |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |   |  |  |
| 5               | QPSK       | 1       | 0         | 17.76               | 17.91                   | 17.77                | 17.95                    | 19                  | 0        |   |  |  |
| 5               | QPSK       | 1       | 12        | 17.80               | 18.00                   | 17.94                | 18.01                    |                     |          |   |  |  |
| 5               | QPSK       | 1       | 24        | 17.66               | 17.96                   | 17.76                | 17.86                    |                     |          |   |  |  |
| 5               | QPSK       | 12      | 0         | 17.87               | 17.99                   | 17.83                | 17.92                    |                     |          |   |  |  |
| 5               | QPSK       | 12      | 7         | 17.78               | 17.94                   | 17.88                | 17.82                    | 19                  | 0        |   |  |  |
| 5               | QPSK       | 12      | 13        | 17.78               | 17.95                   | 17.78                | 17.91                    |                     |          |   |  |  |
| 5               | QPSK       | 25      | 0         | 17.66               | 17.90                   | 17.90                | 17.76                    |                     |          |   |  |  |
| 5               | 16QAM      | 1       | 0         | 17.77               | 17.99                   | 17.87                | 17.95                    |                     | 19       | 0 |  |  |
| 5               | 16QAM      | 1       | 12        | 17.78               | 18.12                   | 17.95                | 18.01                    |                     |          |   |  |  |
| 5               | 16QAM      | 1       | 24        | 17.69               | 17.86                   | 17.86                | 17.86                    |                     |          |   |  |  |
| 5               | 16QAM      | 12      | 0         | 17.88               | 18.04                   | 17.95                | 17.92                    |                     |          |   |  |  |
| 5               | 16QAM      | 12      | 7         | 17.76               | 17.90                   | 17.84                | 17.95                    | 19                  | 0        |   |  |  |
| 5               | 16QAM      | 12      | 13        | 17.81               | 18.05                   | 17.77                | 17.87                    |                     |          |   |  |  |
| 5               | 16QAM      | 25      | 0         | 17.68               | 17.96                   | 17.84                | 17.87                    |                     |          |   |  |  |
| 5               | 64QAM      | 1       | 0         | 17.71               | 17.95                   | 17.84                | 18.00                    | 19                  | 0        |   |  |  |
| 5               | 64QAM      | 1       | 12        | 17.78               | 18.07                   | 17.92                | 17.95                    |                     |          |   |  |  |
| 5               | 64QAM      | 1       | 24        | 17.61               | 17.95                   | 17.82                | 17.83                    |                     |          |   |  |  |
| 5               | 64QAM      | 12      | 0         | 17.74               | 18.00                   | 17.84                | 17.87                    |                     | 19       | 0 |  |  |
| 5               | 64QAM      | 12      | 7         | 17.74               | 17.99                   | 17.85                | 17.85                    |                     |          |   |  |  |
| 5               | 64QAM      | 12      | 13        | 17.74               | 18.03                   | 17.82                | 17.84                    |                     |          |   |  |  |
| 5               | 64QAM      | 25      | 0         | 17.76               | 17.96                   | 17.89                | 17.84                    |                     |          |   |  |  |
| 5               | 256QAM     | 1       | 0         | 17.67               | 17.90                   | 17.84                | 17.94                    | 19                  | 0        |   |  |  |
| 5               | 256QAM     | 1       | 12        | 17.84               | 17.99                   | 17.97                | 18.01                    |                     |          |   |  |  |
| 5               | 256QAM     | 1       | 24        | 17.67               | 17.97                   | 17.76                | 17.77                    |                     |          |   |  |  |
| 5               | 256QAM     | 12      | 0         | 17.77               | 18.00                   | 17.88                | 17.90                    |                     |          |   |  |  |
| 5               | 256QAM     | 12      | 7         | 17.72               | 17.94                   | 17.86                | 17.86                    | 19                  | 0        |   |  |  |
| 5               | 256QAM     | 12      | 13        | 17.73               | 17.93                   | 17.86                | 17.95                    |                     |          |   |  |  |
| 5               | 256QAM     | 25      | 0         | 17.70               | 17.90                   | 17.84                | 17.83                    |                     |          |   |  |  |

| Band 48_Ant 8   |            |         |           |                     |                         |                      |                          |                     |          |      |   |
|-----------------|------------|---------|-----------|---------------------|-------------------------|----------------------|--------------------------|---------------------|----------|------|---|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Mid-Ch./Freq. | Power High Ch./Freq. | Power High Mid-Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |      |   |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| 20              | QPSK       | 1       | 0         | 21.41               | 21.25                   | 21.29                | 21.19                    | 21.7                | 0        |      |   |
| 20              | QPSK       | 1       | 49        | 21.63               | 21.30                   | 21.30                | 21.24                    |                     |          |      |   |
| 20              | QPSK       | 1       | 99        | 21.42               | 21.30                   | 21.16                | 21.20                    |                     |          |      |   |
| 20              | QPSK       | 50      | 0         | 21.44               | 21.30                   | 21.21                | 21.25                    |                     |          |      |   |
| 20              | QPSK       | 50      | 24        | 21.38               | 21.25                   | 21.19                | 21.10                    | 21.7                | 0        |      |   |
| 20              | QPSK       | 50      | 50        | 21.38               | 21.28                   | 21.16                | 21.12                    |                     |          |      |   |
| 20              | QPSK       | 100     | 0         | 21.42               | 21.28                   | 21.26                | 21.17                    |                     |          |      |   |
| 20              | 16QAM      | 1       | 0         | 21.39               | 21.24                   | 21.26                | 21.18                    |                     |          |      |   |
| 20              | 16QAM      | 1       | 49        | 21.44               | 21.24                   | 21.19                | 21.16                    | 21.7                | 0        |      |   |
| 20              | 16QAM      | 1       | 99        | 21.36               | 21.24                   | 21.21                | 21.13                    |                     |          |      |   |
| 20              | 16QAM      | 50      | 0         | 21.40               | 21.24                   | 21.26                | 21.10                    |                     |          |      |   |
| 20              | 16QAM      | 50      | 24        | 21.45               | 21.25                   | 21.21                | 21.16                    |                     |          |      |   |
| 20              | 16QAM      | 50      | 50        | 21.47               | 21.24                   | 21.24                | 21.15                    | 21.7                | 0        |      |   |
| 20              | 16QAM      | 100     | 0         | 21.44               | 21.28                   | 21.28                | 21.17                    |                     |          |      |   |
| 20              | 64QAM      | 1       | 0         | 21.45               | 21.26                   | 21.25                | 21.11                    |                     |          |      |   |
| 20              | 64QAM      | 1       | 49        | 21.40               | 21.26                   | 21.20                | 21.15                    |                     |          |      |   |
| 20              | 64QAM      | 1       | 99        | 21.40               | 21.29                   | 21.26                | 21.13                    | 21.7                | 0        |      |   |
| 20              | 64QAM      | 50      | 0         | 20.97               | 20.30                   | 20.32                | 20.23                    |                     |          |      |   |
| 20              | 64QAM      | 50      | 24        | 20.81               | 20.37                   | 20.30                | 20.33                    |                     |          |      |   |
| 20              | 64QAM      | 50      | 50        | 20.83               | 20.38                   | 20.35                | 20.35                    |                     |          |      |   |
| 20              | 64QAM      | 100     | 0         | 20.83               | 20.39                   | 20.38                | 20.29                    | 21                  | 0.7      |      |   |
| 20              | 256QAM     | 1       | 0         | 18.61               | 18.17                   | 18.18                | 18.09                    |                     |          |      |   |
| 20              | 256QAM     | 1       | 49        | 18.63               | 18.16                   | 18.16                | 18.11                    |                     |          |      |   |
| 20              | 256QAM     | 1       | 99        | 18.67               | 18.19                   | 18.20                | 18.15                    |                     |          |      |   |
| 20              | 256QAM     | 1       | 99        | 18.80               | 18.33                   | 18.34                | 18.29                    | 21                  | 0.7      |      |   |
| 20              | 256QAM     | 50      | 0         | 18.80               | 18.35                   | 18.34                | 18.30                    |                     |          |      |   |
| 20              | 256QAM     | 50      | 24        | 18.80               | 18.35                   | 18.34                | 18.34                    |                     |          |      |   |
| 20              | 256QAM     | 50      | 50        | 18.83               | 18.35                   | 18.40                | 18.42                    |                     |          |      |   |
| 20              | 256QAM     | 100     | 0         | 18.83               | 18.33                   | 18.33                | 18.28                    | 21                  | 0.7      |      |   |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| 15              | QPSK       | 1       | 0         | 21.36               | 21.22                   | 21.25                | 21.18                    |                     |          | 21.7 | 0 |
| 15              | QPSK       | 1       | 37        | 21.38               | 21.35                   | 21.19                | 21.23                    |                     |          |      |   |
| 15              | QPSK       | 74      | 0         | 21.38               | 21.28                   | 21.23                | 21.02                    |                     |          |      |   |
| 15              | QPSK       | 36      | 0         | 21.38               | 21.24                   | 21.10                | 21.16                    |                     |          |      |   |
| 15              | QPSK       | 36      | 20        | 21.31               | 21.11                   | 21.11                | 21.09                    | 21.7                | 0        |      |   |
| 15              | QPSK       | 36      | 39        | 21.28               | 21.14                   | 21.14                | 21.05                    |                     |          |      |   |
| 15              | QPSK       | 75      | 0         | 21.38               | 21.26                   | 21.13                | 21.14                    |                     |          |      |   |
| 15              | 16QAM      | 1       | 0         | 21.32               | 21.11                   | 21.14                | 21.05                    |                     |          |      |   |
| 15              | 16QAM      | 1       | 37        | 21.36               | 21.26                   | 21.10                | 21.15                    | 21.7                | 0        |      |   |
| 15              | 16QAM      | 74      | 0         | 21.22               | 21.14                   | 21.10                | 21.04                    |                     |          |      |   |
| 15              | 16QAM      | 36      | 0         | 21.38               | 21.14                   | 21.12                | 21.06                    |                     |          |      |   |
| 15              | 16QAM      | 36      | 20        | 21.32               | 21.21                   | 21.18                | 21.01                    |                     |          |      |   |
| 15              | 16QAM      | 36      | 39        | 21.42               | 21.24                   | 21.22                | 21.14                    | 21.7                | 0        |      |   |
| 15              | 16QAM      | 75      | 0         | 21.37               | 21.27                   | 21.20                | 21.03                    |                     |          |      |   |
| 15              | 64QAM      | 1       | 0         | 21.43               | 21.23                   | 21.21                | 21.00                    |                     |          |      |   |
| 15              | 64QAM      | 1       | 37        | 21.43               | 21.17                   | 21.15                | 21.12                    |                     |          |      |   |
| 15              | 64QAM      | 1       | 74        | 21.26               | 21.14                   | 21.14                | 21.02                    | 21                  | 0.7      |      |   |
| 15              | 64QAM      | 36      | 0         | 20.72               | 20.26                   | 20.23                | 20.30                    |                     |          |      |   |
| 15              | 64QAM      | 36      | 20        | 20.70               | 20.26                   | 20.26                | 20.28                    |                     |          |      |   |
| 15              | 64QAM      | 36      | 39        | 20.75               | 20.29                   | 20.33                | 20.23                    |                     |          |      |   |
| 15              | 64QAM      | 75      | 0         | 20.72               | 20.29                   | 20.33                | 20.28                    | 21                  | 0.7      |      |   |
| 15              | 256QAM     | 1       | 0         | 18.54               | 18.07                   | 18.08                | 17.97                    |                     |          |      |   |
| 15              | 256QAM     | 1       | 37        | 18.56               | 18.14                   | 18.13                | 18.09                    |                     |          |      |   |
| 15              | 256QAM     | 1       | 74        | 18.64               | 18.12                   | 18.16                | 18.07                    |                     |          |      |   |
| 15              | 256QAM     | 1       | 39        | 18.78               | 18.24                   | 18.38                | 18.31                    | 21                  | 0.7      |      |   |
| 15              | 256QAM     | 50      | 0         | 18.78               | 18.23                   | 18.30                | 18.24                    |                     |          |      |   |
| 15              | 256QAM     | 50      | 39        | 18.72               | 18.27                   | 18.29                | 18.40                    |                     |          |      |   |
| 15              | 256QAM     | 100     | 0         | 18.68               | 18.21                   | 18.23                | 18.27                    |                     |          |      |   |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| 10              | QPSK       | 1       | 0         | 21.33               | 21.14                   | 21.20                | 21.15                    | 21.7                | 0        |      |   |
| 10              | QPSK       | 1       | 25        | 21.41               | 21.23                   | 21.28                | 21.20                    |                     |          |      |   |
| 10              | QPSK       | 1       | 51        | 21.30               | 21.21                   | 21.16                | 21.19                    |                     |          |      |   |
| 10              | QPSK       | 25      | 0         | 21.35               | 21.15                   | 21.19                | 21.14                    |                     |          |      |   |
| 10              | QPSK       | 25      | 12        | 21.37               | 21.14                   | 21.14                | 20.95                    | 21.7                | 0        |      |   |
| 10              | QPSK       | 25      | 24        | 21.27               | 21.18                   | 21.11                | 21.08                    |                     |          |      |   |
| 10              | QPSK       | 50      | 0         | 21.40               | 21.19                   | 21.15                | 21.08                    |                     |          |      |   |
| 10              | 16QAM      | 1       | 0         | 21.26               | 21.18                   | 21.22                | 21.13                    |                     |          |      |   |
| 10              | 16QAM      | 1       | 25        | 21.33               | 21.21                   | 21.17                | 21.05                    | 21.7                | 0        |      |   |
| 10              | 16QAM      | 1       | 51        | 21.29               | 21.17                   | 21.12                | 21.06                    |                     |          |      |   |
| 10              | 16QAM      | 25      | 0         | 21.38               | 21.09                   | 21.16                | 20.99                    |                     |          |      |   |
| 10              | 16QAM      | 25      | 12        | 21.40               | 21.17                   | 21.06                | 21.08                    |                     |          |      |   |
| 10              | 16QAM      | 25      | 24        | 21.41               | 21.22                   | 21.15                | 21.11                    | 21.7                | 0        |      |   |
| 10              | 16QAM      | 50      | 0         | 21.29               | 21.21                   | 21.11                | 21.07                    |                     |          |      |   |
| 10              | 64QAM      | 1       | 0         | 21.42               | 21.25                   | 21.14                | 20.99                    |                     |          |      |   |
| 10              | 64QAM      | 1       | 25        | 21.40               | 21.21                   | 21.14                | 21.05                    |                     |          |      |   |
| 10              | 64QAM      | 1       | 51        | 21.33               | 21.26                   | 21.14                | 21.05                    | 21                  | 0.7      |      |   |
| 10              | 64QAM      | 25      | 0         | 20.69               | 20.24                   | 20.14                | 20.23                    |                     |          |      |   |
| 10              | 64QAM      | 25      | 12        | 20.69               | 20.26                   | 20.25                | 20.30                    |                     |          |      |   |
| 10              | 64QAM      | 25      | 24        | 20.76               | 20.33                   | 20.32                | 20.33                    |                     |          |      |   |
| 10              | 64QAM      | 50      | 0         | 20.76               | 20.32                   | 20.32                | 20.29                    | 21                  | 0.7      |      |   |
| 10              | 256QAM     | 1       | 0         | 18.55               | 18.08                   | 18.11                | 17.97                    |                     |          |      |   |
| 10              | 256QAM     | 1       | 25        | 18.53               | 18.04                   | 18.12                | 18.04                    |                     |          |      |   |
| 10              | 256QAM     | 1       | 51        | 18.55               | 18.08                   | 18.12                | 18.03                    |                     |          |      |   |
| 10              | 256QAM     | 25      | 0         | 18.74               | 18.30                   | 18.38                | 18.37                    | 21                  | 0.7      |      |   |
| 10              | 256QAM     | 25      | 12        | 18.72               | 18.32                   | 18.24                | 18.22                    |                     |          |      |   |
| 10              | 256QAM     | 25      | 24        | 18.76               | 18.34                   | 18.34                | 18.38                    |                     |          |      |   |
| 10              | 256QAM     | 50      | 0         | 18.77               | 18.30                   | 18.25                | 18.37                    |                     |          |      |   |
| Channel         |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| Frequency (MHz) |            |         |           |                     |                         |                      |                          |                     |          |      |   |
| 5               | QPSK       | 1       | 0         | 21.32               | 21.11                   | 21.28                | 21.13                    | 21.7                | 0        |      |   |
| 5               | QPSK       | 1       | 24        | 21.39               | 21.24                   | 21.19                | 21.19                    |                     |          |      |   |
| 5               | QPSK       | 1       | 24        | 21.35               | 21.18                   | 21.04                | 21.14                    |                     |          |      |   |
| 5               | QPSK       | 12      | 0         | 21.43               | 21.17                   | 21.18                | 21.07                    |                     |          |      |   |
| 5               | QPSK       | 12      | 7         | 21.38               | 21.22                   | 21.08                | 21.01                    | 21.7                | 0        |      |   |
| 5               | QPSK       | 12      | 14        | 21.28               | 21.17                   | 21.12                | 21.11                    |                     |          |      |   |
| 5               | QPSK       | 25      | 0         | 21.38               | 21.27                   | 21.15                | 21.14                    |                     |          |      |   |
| 5               | 16QAM      | 1       | 0         | 21.32               | 21.16                   | 21.12                | 21.02                    |                     |          |      |   |
| 5               | 16QAM      | 1       | 24        | 21.29               | 21.21                   | 21.12                | 21.12                    | 21.7                | 0        |      |   |
| 5               | 16QAM      | 1       | 24        | 21.26               | 21.18                   | 21.16                | 21.15                    |                     |          |      |   |
| 5               | 16QAM      | 12      | 0         | 21.27               | 21.18                   | 21.15                | 21.05                    |                     |          |      |   |
| 5               | 16QAM      | 12      | 7         | 21.33               | 21.13                   | 21.13                | 21.03                    |                     |          |      |   |
| 5               | 16QAM      | 12      | 14        | 21.38               | 21.26                   | 21.18                | 21.02                    | 21                  | 0        |      |   |
| 5               | 64QAM      | 1       | 0         | 21.41               | 21.19                   | 21.13                | 21.04                    |                     |          |      |   |
| 5               | 64QAM      | 1       | 24        | 21.29               | 21.14                   | 21.13                | 21.14                    |                     |          |      |   |
| 5               | 64QAM      | 1       | 24        | 21.33               | 21.19                   | 21.05                | 21.11                    |                     |          |      |   |
| 5               | 64QAM      | 12      | 0         | 20.69               | 20.30                   | 20.22                | 20.30                    | 21                  | 0.7      |      |   |
| 5               | 64QAM      | 12      | 7         | 20.72               | 20.34                   | 20.27                | 20.31                    |                     |          |      |   |
| 5               | 64QAM      | 12      | 14        | 20.71               | 20.32                   | 20.27                | 20.33                    |                     |          |      |   |
| 5               | 256QAM     | 1       | 0         | 18.51               | 18.32                   | 18.30                | 18.25                    |                     |          |      |   |
| 5               | 256QAM     | 1       | 12        | 18.51               | 18.30                   | 18.27                | 18.08                    | 21                  | 2.7      |      |   |
| 5               | 256QAM     | 1       | 24        | 18.58               | 18.34                   | 18.37                | 18.38                    |                     |          |      |   |
| 5               | 256QAM     | 12      | 0         | 18.73               | 18.25                   | 18.34                | 18.30                    |                     |          |      |   |
| 5               | 256QAM     | 12      | 7         | 18.68               | 18.23                   | 18.25                | 18.32                    |                     |          |      |   |
| 5               | 256QAM     | 12      | 14        | 18.60               | 18.25                   | 18.33                | 18.32                    | 21                  | 2.7      |      |   |
| 5               | 256QAM     | 12      | 7         | 18.68               | 18.27                   | 18.25                | 18.30                    |                     |          |      |   |



### Reduced Power Mode for DS17

| GSM850_Ant 0    | Burst Average Power (dBm) |       |       | Tune-up | Frame-Average Power (dBm) |       |       | Tune-up |
|-----------------|---------------------------|-------|-------|---------|---------------------------|-------|-------|---------|
| TX Channel      | 128                       | 189   | 251   | Limit   | 128                       | 189   | 251   | Limit   |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 | 860.8   | 824.2                     | 836.4 | 848.8 | 860.8   |
| GSM 1 Tx slot   | 31.90                     | 31.88 | 32.27 | 33.50   | 22.90                     | 22.68 | 23.27 | 24.50   |
| GPRS 1 Tx slot  | 31.88                     | 31.65 | 32.24 | 33.50   | 22.88                     | 22.65 | 23.24 | 24.50   |
| GPRS 2 Tx slots | 29.03                     | 29.37 | 29.58 | 30.50   | 23.03                     | 23.37 | 23.58 | 24.50   |
| GPRS 3 Tx slots | 27.82                     | 27.93 | 27.92 | 28.80   | 23.56                     | 23.67 | 23.66 | 24.54   |
| GPRS 4 Tx slots | 26.23                     | 26.41 | 26.43 | 27.50   | 23.23                     | 23.41 | 23.43 | 24.50   |
| EDGE 1 Tx slot  | 25.13                     | 25.25 | 25.56 | 26.50   | 16.13                     | 16.19 | 16.50 | 17.50   |
| EDGE 2 Tx slots | 24.25                     | 24.33 | 24.55 | 25.50   | 18.25                     | 18.33 | 18.55 | 19.50   |
| EDGE 3 Tx slots | 22.51                     | 22.31 | 22.72 | 23.50   | 18.25                     | 18.05 | 18.46 | 19.24   |
| EDGE 4 Tx slots | 20.51                     | 20.45 | 20.69 | 21.50   | 17.51                     | 17.45 | 17.69 | 18.50   |

| Band            | WCDMA_II_Ant 0          |        |       |        | WCDMA_II_Ant 1      |        |       |        |                     |
|-----------------|-------------------------|--------|-------|--------|---------------------|--------|-------|--------|---------------------|
|                 | TX Channel              | 9262   | 9400  | 9538   | Tune-up Limit (dBm) | 9262   | 9400  | 9538   | Tune-up Limit (dBm) |
| Rx Channel      |                         | 9662   | 9800  | 9938   |                     | 9662   | 9800  | 9938   |                     |
| Frequency (MHz) |                         | 1852.4 | 1880  | 1907.6 |                     | 1852.4 | 1880  | 1907.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 14.45  | 14.52 | 14.44  | 15.70               | 16.30  | 16.45 | 16.39  | 18.00               |
| 3GPP Rel 99     | RMC 12.2Kbps            | 14.49  | 14.55 | 14.48  | 15.70               | 16.34  | 16.48 | 16.41  | 18.00               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 13.36  | 13.16 | 13.43  | 14.70               | 15.43  | 15.54 | 15.48  | 17.00               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 13.29  | 13.31 | 13.47  | 14.70               | 15.47  | 15.53 | 15.44  | 17.00               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 12.83  | 12.68 | 12.73  | 14.20               | 14.97  | 15.01 | 14.88  | 16.50               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 12.92  | 12.75 | 12.45  | 14.20               | 15.04  | 15.12 | 14.94  | 16.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 13.31  | 13.15 | 13.31  | 14.70               | 15.41  | 15.43 | 15.42  | 17.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 13.24  | 13.26 | 13.43  | 14.70               | 15.36  | 15.44 | 15.31  | 17.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 12.72  | 12.62 | 12.77  | 14.20               | 14.90  | 14.92 | 14.89  | 16.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 12.63  | 12.57 | 12.42  | 14.20               | 14.96  | 14.91 | 14.91  | 16.50               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 13.47  | 13.22 | 13.60  | 14.70               | 15.46  | 15.44 | 15.45  | 17.00               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 11.39  | 11.28 | 11.53  | 12.70               | 13.59  | 13.60 | 13.52  | 15.00               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 12.35  | 12.19 | 12.51  | 13.70               | 14.53  | 14.49 | 14.65  | 16.00               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 11.52  | 11.36 | 11.49  | 12.70               | 13.52  | 13.54 | 13.60  | 15.00               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 13.49  | 13.26 | 13.48  | 14.70               | 15.47  | 15.32 | 15.57  | 17.00               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 12.17  | 12.21 | 12.24  | 13.20               | 13.69  | 13.98 | 13.82  | 15.50               |

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| Band        | WCDMA_V_Ant 0           |       |       |       |                     | WCDMA_V_Ant 1 |       |       |                     |  |
|-------------|-------------------------|-------|-------|-------|---------------------|---------------|-------|-------|---------------------|--|
|             | TX Channel              | 4132  | 4182  | 4233  | Tune-up Limit (dBm) | 4132          | 4182  | 4233  | Tune-up Limit (dBm) |  |
|             | Rx Channel              | 4357  | 4407  | 4458  |                     | 4357          | 4407  | 4458  |                     |  |
|             | Frequency (MHz)         | 826.4 | 836.4 | 846.6 |                     | 826.4         | 836.4 | 846.6 |                     |  |
| 3GPP Rel 99 | AMR 12.2Kbps            | 22.13 | 22.25 | 22.22 | 24.00               | 20.51         | 20.68 | 20.61 | 21.90               |  |
| 3GPP Rel 99 | RMC 12.2Kbps            | 22.15 | 22.27 | 22.25 | 24.00               | 20.56         | 20.72 | 20.66 | 21.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-1         | 21.19 | 21.26 | 21.30 | 23.00               | 19.54         | 19.69 | 19.73 | 20.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-2         | 21.14 | 21.27 | 21.33 | 23.00               | 19.62         | 19.71 | 19.83 | 20.90               |  |
| 3GPP Rel 6  | HSDPA Subtest-3         | 20.85 | 20.74 | 20.85 | 22.50               | 19.04         | 19.06 | 19.29 | 20.40               |  |
| 3GPP Rel 6  | HSDPA Subtest-4         | 20.65 | 20.74 | 20.77 | 22.50               | 18.97         | 19.23 | 19.32 | 20.40               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-1      | 21.10 | 21.21 | 21.02 | 23.00               | 19.73         | 19.70 | 19.71 | 20.90               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-2      | 21.06 | 21.13 | 21.09 | 23.00               | 19.61         | 19.70 | 19.66 | 20.90               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-3      | 20.53 | 20.69 | 20.58 | 22.50               | 19.25         | 19.22 | 19.06 | 20.40               |  |
| 3GPP Rel 6  | DC-HSDPA Subtest-4      | 20.70 | 20.71 | 20.59 | 22.50               | 19.13         | 19.15 | 19.10 | 20.40               |  |
| 3GPP Rel 6  | HSUPA Subtest-1         | 21.12 | 21.22 | 21.28 | 23.00               | 19.71         | 19.67 | 19.81 | 20.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-2         | 19.14 | 19.26 | 19.29 | 21.00               | 17.68         | 17.67 | 17.81 | 18.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-3         | 20.14 | 20.23 | 20.30 | 22.00               | 18.65         | 18.59 | 18.69 | 19.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-4         | 19.14 | 19.23 | 19.28 | 21.00               | 17.55         | 17.70 | 17.70 | 18.90               |  |
| 3GPP Rel 6  | HSUPA Subtest-5         | 21.10 | 21.20 | 21.30 | 23.00               | 19.54         | 19.64 | 19.79 | 20.90               |  |
| 3GPP Rel 7  | HSPA+ (16QAM) Subtest-1 | 19.54 | 19.66 | 19.60 | 21.50               | 18.08         | 18.13 | 18.07 | 19.40               |  |

| GSM1900_Ant 0   | Burst Average Power (dBm) |        |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|-------|--------|---------------------|---------------------------|-------|--------|-------|---------------------|
|                 | TX Channel                | 512    | 661   | 810    |                     | 512                       | 661   | 810    |       |                     |
| Frequency (MHz) |                           | 1850.2 | 1680  | 1909.8 |                     | 1850.2                    | 1680  | 1909.8 |       |                     |
| GSM 1 Tx slot   |                           | 25.87  | 25.98 | 26.03  | 26.60               | 16.87                     | 16.98 | 17.03  | 17.60 |                     |
| GPRS 1 Tx slot  |                           | 25.83  | 26.01 | 25.86  | 26.60               | 16.83                     | 17.01 | 16.86  | 17.60 |                     |
| GPRS 2 Tx slots |                           | 22.56  | 22.50 | 22.49  | 23.60               | 16.56                     | 16.50 | 16.49  | 17.60 |                     |
| GPRS 3 Tx slots |                           | 20.60  | 20.80 | 20.65  | 21.90               | 16.34                     | 16.54 | 16.39  | 17.64 |                     |
| GPRS 4 Tx slots |                           | 19.29  | 19.38 | 19.39  | 20.60               | 16.29                     | 16.38 | 16.39  | 17.60 |                     |
| EDGE 1 Tx slot  |                           | 24.81  | 24.46 | 24.81  | 26.00               | 15.81                     | 15.46 | 15.81  | 17.60 |                     |
| EDGE 2 Tx slots |                           | 22.25  | 22.16 | 22.17  | 23.60               | 16.25                     | 16.16 | 16.17  | 17.60 |                     |
| EDGE 3 Tx slots |                           | 20.25  | 20.48 | 20.22  | 21.90               | 15.99                     | 16.22 | 15.96  | 17.64 |                     |
| EDGE 4 Tx slots |                           | 18.85  | 19.06 | 19.05  | 20.60               | 15.85                     | 16.06 | 16.05  | 17.60 |                     |

| Band            | WCDMA_IV_Ant_0          |        |        |        | Tune-up Limit (dBm) | WCDMA_IV_Ant_1 |        |        |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|--------|--------|--------|---------------------|----------------|--------|--------|-------|---------------------|
|                 | TX Channel              | 1312   | 1413   | 1513   |                     | 1312           | 1413   | 1513   |       |                     |
| Rx Channel      |                         | 1537   | 1638   | 1738   |                     | 1537           | 1638   | 1738   |       |                     |
| Frequency (MHz) |                         | 1712.4 | 1732.6 | 1752.6 |                     | 1712.4         | 1732.6 | 1752.6 |       |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 15.31  | 15.52  | 15.51  | 16.70               | 15.89          | 16.00  | 15.93  | 17.40 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 15.34  | 15.56  | 15.54  | 16.70               | 16.02          | 16.03  | 15.97  | 17.40 |                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 14.38  | 14.60  | 14.45  | 15.70               | 14.78          | 15.14  | 14.99  | 16.40 |                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 14.29  | 14.53  | 14.51  | 15.70               | 14.78          | 14.96  | 14.96  | 16.40 |                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 13.91  | 14.04  | 13.90  | 15.20               | 14.23          | 14.57  | 14.55  | 15.90 |                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 13.77  | 14.20  | 13.95  | 15.20               | 14.44          | 14.57  | 14.40  | 15.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 14.08  | 14.38  | 14.10  | 15.70               | 14.83          | 14.94  | 14.84  | 16.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 14.04  | 14.55  | 14.32  | 15.70               | 14.87          | 14.94  | 14.82  | 16.40 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 13.78  | 13.87  | 13.77  | 15.20               | 14.34          | 14.48  | 14.26  | 15.90 |                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 13.66  | 14.07  | 13.80  | 15.20               | 14.24          | 14.47  | 14.24  | 15.90 |                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 14.53  | 14.62  | 14.40  | 15.70               | 14.98          | 15.09  | 14.87  | 16.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 12.50  | 12.60  | 12.54  | 13.70               | 12.99          | 13.03  | 12.99  | 14.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 13.48  | 13.45  | 13.49  | 14.70               | 14.03          | 14.03  | 13.98  | 15.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 12.59  | 12.62  | 12.39  | 13.70               | 13.04          | 13.08  | 13.02  | 14.40 |                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 14.56  | 14.56  | 14.49  | 15.70               | 15.07          | 15.07  | 14.91  | 16.40 |                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 13.39  | 13.28  | 13.22  | 14.20               | 13.31          | 13.58  | 13.52  | 14.90 |                     |

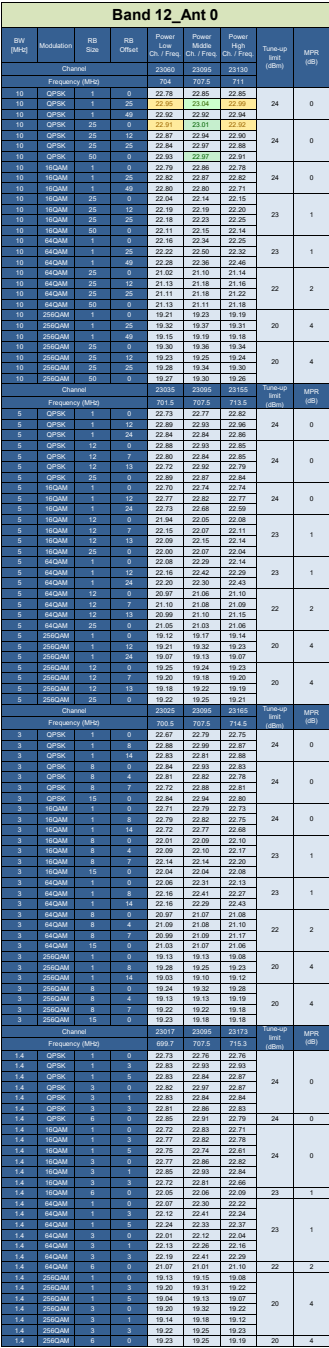
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| Band 2_Ant 0             |            |             |              |                            |                            |                             |                        |             |  |
|--------------------------|------------|-------------|--------------|----------------------------|----------------------------|-----------------------------|------------------------|-------------|--|
| BW<br>[MHz]              | Modulation | RB<br>Spac. | RB<br>Offset | Power<br>Low<br>Ch / Freq. | Power<br>Med<br>Ch / Freq. | Power<br>High<br>Ch / Freq. | Turn-on<br>Time<br>(s) | MFR<br>(dB) |  |
| Channel                  |            |             |              |                            |                            |                             |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1850 1860 1870 1880 1890 |            |             |              |                            |                            |                             |                        |             |  |
| 20                       | QPSK       | 1           | 0            | 15.03                      | 15.05                      | 14.88                       |                        |             |  |
| 20                       | QPSK       | 1           | 49           | 15.08                      | 15.13                      | 15.03                       | 16.4                   | 0           |  |
| 10                       | QPSK       | 1           | 142          | 15.08                      | 15.13                      | 15.03                       |                        |             |  |
| 20                       | QPSK       | 50          | 0            | 15.10                      | 15.11                      | 14.94                       |                        |             |  |
| 20                       | QPSK       | 50          | 24           | 15.05                      | 15.04                      | 14.81                       | 16.4                   | 0           |  |
| 20                       | QPSK       | 50          | 24           | 15.07                      | 15.06                      | 14.78                       |                        |             |  |
| 20                       | QPSK       | 100         | 0            | 15.02                      | 15.08                      | 14.85                       |                        |             |  |
| 20                       | HQAM       | 1           | 0            | 14.96                      | 15.06                      | 14.86                       | 16.4                   | 0           |  |
| 20                       | HQAM       | 1           | 49           | 14.94                      | 15.09                      | 15.08                       |                        |             |  |
| 20                       | HQAM       | 1           | 99           | 14.99                      | 15.12                      | 15.02                       |                        |             |  |
| 20                       | HQAM       | 50          | 0            | 15.03                      | 15.03                      | 14.91                       |                        |             |  |
| 20                       | HQAM       | 50          | 24           | 15.03                      | 15.09                      | 14.97                       | 16.4                   | 0           |  |
| 20                       | HQAM       | 50          | 24           | 14.99                      | 15.01                      | 14.93                       |                        |             |  |
| 20                       | HQAM       | 100         | 0            | 14.96                      | 14.94                      | 14.89                       |                        |             |  |
| 20                       | HQAM       | 100         | 0            | 14.95                      | 14.96                      | 15.02                       |                        |             |  |
| 20                       | HQAM       | 1           | 49           | 14.97                      | 15.09                      | 14.96                       | 16.4                   | 0           |  |
| 20                       | HQAM       | 1           | 99           | 14.98                      | 15.05                      | 14.99                       |                        |             |  |
| 20                       | HQAM       | 50          | 0            | 14.97                      | 15.02                      | 14.90                       |                        |             |  |
| 20                       | HQAM       | 50          | 24           | 15.03                      | 15.03                      | 14.92                       | 16.4                   | 0           |  |
| 20                       | HQAM       | 50          | 24           | 14.91                      | 15.01                      | 14.91                       |                        |             |  |
| 20                       | HQAM       | 100         | 0            | 14.88                      | 15.06                      | 14.94                       |                        |             |  |
| 20                       | 25GQAM     | 1           | 0            | 14.99                      | 14.99                      | 14.96                       |                        |             |  |
| 20                       | 25GQAM     | 1           | 49           | 14.96                      | 14.94                      | 14.94                       | 16.4                   | 0           |  |
| 20                       | 25GQAM     | 1           | 99           | 15.11                      | 15.08                      | 14.98                       |                        |             |  |
| 20                       | 25GQAM     | 50          | 0            | 14.96                      | 14.93                      | 14.92                       |                        |             |  |
| 20                       | 25GQAM     | 50          | 24           | 15.07                      | 15.02                      | 14.82                       | 16.4                   | 0           |  |
| 20                       | 25GQAM     | 50          | 24           | 14.91                      | 15.02                      | 14.92                       |                        |             |  |
| 20                       | 25GQAM     | 100         | 0            | 14.90                      | 15.04                      | 14.92                       |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1890 1895 1900 1905 1910 |            |             |              |                            |                            |                             |                        |             |  |
| 16                       | QPSK       | 1           | 0            | 14.92                      | 14.99                      | 14.76                       | 16.4                   | 0           |  |
| 16                       | QPSK       | 1           | 97           | 14.94                      | 14.88                      | 14.91                       |                        |             |  |
| 16                       | QPSK       | 1           | 142          | 14.93                      | 14.91                      | 14.88                       |                        |             |  |
| 16                       | QPSK       | 36          | 0            | 15.07                      | 15.09                      | 14.84                       | 16.4                   | 0           |  |
| 16                       | QPSK       | 36          | 20           | 14.98                      | 14.80                      | 14.80                       |                        |             |  |
| 16                       | QPSK       | 36          | 20           | 14.93                      | 14.92                      | 14.78                       |                        |             |  |
| 16                       | QPSK       | 78          | 0            | 15.01                      | 14.99                      | 14.77                       |                        |             |  |
| 16                       | HQAM       | 1           | 0            | 14.93                      | 15.03                      | 14.79                       | 16.4                   | 0           |  |
| 16                       | HQAM       | 1           | 49           | 14.92                      | 14.99                      | 14.92                       |                        |             |  |
| 16                       | HQAM       | 1           | 99           | 14.88                      | 15.08                      | 15.09                       |                        |             |  |
| 16                       | HQAM       | 36          | 0            | 14.94                      | 14.95                      | 14.80                       | 16.4                   | 0           |  |
| 16                       | HQAM       | 36          | 20           | 14.93                      | 14.99                      | 14.83                       |                        |             |  |
| 16                       | HQAM       | 36          | 20           | 14.85                      | 14.98                      | 14.87                       |                        |             |  |
| 16                       | HQAM       | 75          | 0            | 14.94                      | 14.82                      | 14.86                       |                        |             |  |
| 16                       | HQAM       | 75          | 0            | 14.87                      | 14.87                      | 14.80                       |                        |             |  |
| 16                       | HQAM       | 1           | 97           | 14.92                      | 14.98                      | 14.83                       | 16.4                   | 0           |  |
| 16                       | HQAM       | 1           | 74           | 14.98                      | 15.02                      | 14.91                       |                        |             |  |
| 16                       | HQAM       | 36          | 0            | 14.96                      | 14.93                      | 14.79                       |                        |             |  |
| 16                       | HQAM       | 36          | 20           | 14.97                      | 14.99                      | 14.81                       | 16.4                   | 0           |  |
| 16                       | HQAM       | 36          | 20           | 14.77                      | 14.85                      | 14.80                       |                        |             |  |
| 16                       | HQAM       | 75          | 0            | 14.73                      | 14.87                      | 14.81                       |                        |             |  |
| 16                       | 25GQAM     | 1           | 0            | 14.96                      | 14.92                      | 14.88                       |                        |             |  |
| 16                       | 25GQAM     | 1           | 49           | 14.97                      | 14.91                      | 14.83                       | 16.4                   | 0           |  |
| 16                       | 25GQAM     | 1           | 99           | 14.98                      | 14.98                      | 14.98                       |                        |             |  |
| 16                       | 25GQAM     | 36          | 0            | 14.92                      | 14.83                      | 14.79                       |                        |             |  |
| 16                       | 25GQAM     | 36          | 20           | 14.92                      | 14.80                      | 14.78                       | 16.4                   | 0           |  |
| 16                       | 25GQAM     | 36          | 20           | 14.76                      | 14.87                      | 14.83                       |                        |             |  |
| 16                       | 25GQAM     | 78          | 0            | 14.76                      | 14.88                      | 14.85                       |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1910 1915 1920 1925 1930 |            |             |              |                            |                            |                             |                        |             |  |
| 10                       | QPSK       | 1           | 0            | 14.95                      | 14.99                      | 14.78                       | 16.4                   | 0           |  |
| 10                       | QPSK       | 1           | 25           | 14.99                      | 15.05                      | 14.87                       |                        |             |  |
| 10                       | QPSK       | 1           | 142          | 14.93                      | 14.91                      | 14.87                       |                        |             |  |
| 10                       | QPSK       | 26          | 0            | 14.96                      | 15.08                      | 14.86                       | 16.4                   | 0           |  |
| 10                       | QPSK       | 26          | 12           | 14.90                      | 14.80                      | 14.79                       |                        |             |  |
| 10                       | QPSK       | 26          | 12           | 14.82                      | 14.94                      | 14.74                       |                        |             |  |
| 10                       | QPSK       | 50          | 0            | 15.02                      | 14.91                      | 14.76                       |                        |             |  |
| 10                       | HQAM       | 1           | 0            | 14.89                      | 14.92                      | 14.74                       | 16.4                   | 0           |  |
| 10                       | HQAM       | 1           | 49           | 14.82                      | 14.94                      | 14.86                       |                        |             |  |
| 10                       | HQAM       | 1           | 99           | 14.96                      | 15.08                      | 14.88                       |                        |             |  |
| 10                       | HQAM       | 26          | 0            | 15.02                      | 14.96                      | 14.76                       | 16.4                   | 0           |  |
| 10                       | HQAM       | 26          | 12           | 14.88                      | 14.99                      | 14.85                       |                        |             |  |
| 10                       | HQAM       | 26          | 12           | 14.86                      | 14.91                      | 14.78                       |                        |             |  |
| 10                       | HQAM       | 50          | 0            | 14.91                      | 14.88                      | 14.97                       |                        |             |  |
| 10                       | HQAM       | 50          | 0            | 14.91                      | 14.88                      | 14.92                       |                        |             |  |
| 10                       | HQAM       | 1           | 25           | 14.90                      | 14.88                      | 14.87                       | 16.4                   | 0           |  |
| 10                       | HQAM       | 1           | 49           | 14.85                      | 14.92                      | 14.84                       |                        |             |  |
| 10                       | HQAM       | 26          | 0            | 14.92                      | 14.88                      | 14.88                       |                        |             |  |
| 10                       | HQAM       | 26          | 12           | 14.92                      | 14.85                      | 14.81                       | 16.4                   | 0           |  |
| 10                       | HQAM       | 26          | 12           | 14.91                      | 14.89                      | 14.92                       |                        |             |  |
| 10                       | HQAM       | 50          | 0            | 14.78                      | 14.85                      | 14.83                       |                        |             |  |
| 10                       | 25GQAM     | 1           | 0            | 14.84                      | 14.94                      | 14.89                       |                        |             |  |
| 10                       | 25GQAM     | 1           | 25           | 14.90                      | 14.82                      | 14.81                       | 16.4                   | 0           |  |
| 10                       | 25GQAM     | 1           | 49           | 14.93                      | 14.87                      | 14.84                       |                        |             |  |
| 10                       | 25GQAM     | 26          | 0            | 14.85                      | 14.84                      | 14.90                       |                        |             |  |
| 10                       | 25GQAM     | 26          | 12           | 14.85                      | 14.84                      | 14.84                       | 16.4                   | 0           |  |
| 10                       | 25GQAM     | 50          | 0            | 14.79                      | 15.00                      | 14.84                       |                        |             |  |
| 10                       | 25GQAM     | 50          | 0            | 14.84                      | 14.98                      | 14.90                       |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1930 1935 1940 1945 1950 |            |             |              |                            |                            |                             |                        |             |  |
| 5                        | QPSK       | 1           | 0            | 14.91                      | 14.94                      | 14.83                       | 16.4                   | 0           |  |
| 5                        | QPSK       | 1           | 12           | 15.06                      | 15.00                      | 14.95                       |                        |             |  |
| 5                        | QPSK       | 1           | 142          | 14.89                      | 14.88                      | 14.81                       |                        |             |  |
| 5                        | QPSK       | 12          | 0            | 14.97                      | 15.08                      | 14.77                       |                        |             |  |
| 5                        | QPSK       | 12          | 7            | 14.97                      | 15.03                      | 14.71                       | 16.4                   | 0           |  |
| 5                        | QPSK       | 12          | 7            | 14.96                      | 14.81                      | 14.78                       |                        |             |  |
| 5                        | QPSK       | 26          | 0            | 14.96                      | 15.08                      | 14.75                       |                        |             |  |
| 5                        | HQAM       | 1           | 0            | 14.87                      | 14.91                      | 14.82                       | 16.4                   | 0           |  |
| 5                        | HQAM       | 1           | 49           | 14.87                      | 14.98                      | 14.98                       |                        |             |  |
| 5                        | HQAM       | 1           | 99           | 14.86                      | 15.11                      | 14.88                       |                        |             |  |
| 5                        | HQAM       | 12          | 0            | 14.92                      | 15.02                      | 14.79                       | 16.4                   | 0           |  |
| 5                        | HQAM       | 12          | 7            | 14.99                      | 15.02                      | 14.82                       |                        |             |  |
| 5                        | HQAM       | 12          | 13           | 14.95                      | 14.91                      | 14.78                       |                        |             |  |
| 5                        | HQAM       | 26          | 0            | 14.88                      | 14.92                      | 14.84                       |                        |             |  |
| 5                        | HQAM       | 26          | 0            | 14.93                      | 14.83                      | 14.84                       |                        |             |  |
| 5                        | HQAM       | 1           | 12           | 14.89                      | 14.97                      | 14.93                       | 16.4                   | 0           |  |
| 5                        | HQAM       | 1           | 24           | 14.93                      | 15.04                      | 14.84                       |                        |             |  |
| 5                        | HQAM       | 12          | 0            | 14.89                      | 15.01                      | 14.95                       |                        |             |  |
| 5                        | HQAM       | 12          | 7            | 14.89                      | 14.98                      | 14.96                       | 16.4                   | 0           |  |
| 5                        | HQAM       | 12          | 13           | 14.83                      | 14.94                      | 14.84                       |                        |             |  |
| 5                        | 25GQAM     | 1           | 0            | 14.84                      | 14.89                      | 14.94                       |                        |             |  |
| 5                        | 25GQAM     | 1           | 12           | 14.91                      | 14.88                      | 14.86                       | 16.4                   | 0           |  |
| 5                        | 25GQAM     | 12          | 0            | 14.83                      | 14.94                      | 14.84                       |                        |             |  |
| 5                        | 25GQAM     | 12          | 7            | 14.90                      | 14.98                      | 14.87                       |                        |             |  |
| 5                        | 25GQAM     | 12          | 13           | 14.90                      | 14.88                      | 14.80                       | 16.4                   | 0           |  |
| 5                        | 25GQAM     | 26          | 0            | 14.89                      | 14.89                      | 14.81                       |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1950 1955 1960 1965 1970 |            |             |              |                            |                            |                             |                        |             |  |
| 3                        | QPSK       | 1           | 0            | 14.90                      | 15.00                      | 14.81                       | 16.4                   | 0           |  |
| 3                        | QPSK       | 1           | 8            | 14.94                      | 15.04                      | 14.84                       |                        |             |  |
| 3                        | QPSK       | 1           | 142          | 14.87                      | 14.91                      | 14.85                       |                        |             |  |
| 3                        | QPSK       | 8           | 0            | 15.02                      | 15.01                      | 14.80                       | 16.4                   | 0           |  |
| 3                        | QPSK       | 8           | 4            | 14.98                      | 14.92                      | 14.74                       |                        |             |  |
| 3                        | QPSK       | 8           | 4            | 14.90                      | 14.84                      | 14.78                       |                        |             |  |
| 3                        | QPSK       | 16          | 0            | 15.02                      | 15.08                      | 14.79                       |                        |             |  |
| 3                        | HQAM       | 1           | 0            | 14.91                      | 14.95                      | 14.78                       | 16.4                   | 0           |  |
| 3                        | HQAM       | 1           | 49           | 14.88                      | 14.99                      | 14.91                       |                        |             |  |
| 3                        | HQAM       | 1           | 99           | 14.96                      | 15.08                      | 14.89                       |                        |             |  |
| 3                        | HQAM       | 8           | 0            | 14.90                      | 14.98                      | 14.86                       | 16.4                   | 0           |  |
| 3                        | HQAM       | 8           | 4            | 14.94                      | 15.09                      | 14.79                       |                        |             |  |
| 3                        | HQAM       | 8           | 7            | 14.89                      | 14.93                      | 14.84                       |                        |             |  |
| 3                        | HQAM       | 16          | 0            | 14.83                      | 14.82                      | 14.86                       |                        |             |  |
| 3                        | HQAM       | 16          | 0            | 14.94                      | 14.86                      | 14.97                       |                        |             |  |
| 3                        | HQAM       | 1           | 8            | 14.82                      | 14.89                      | 14.83                       | 16.4                   | 0           |  |
| 3                        | HQAM       | 1           | 14           | 14.88                      | 14.97                      | 14.84                       |                        |             |  |
| 3                        | HQAM       | 8           | 0            | 14.80                      | 14.91                      | 14.75                       |                        |             |  |
| 3                        | HQAM       | 8           | 4            | 14.96                      | 15.02                      | 14.86                       | 16.4                   | 0           |  |
| 3                        | HQAM       | 8           | 7            | 14.90                      | 14.94                      | 14.86                       |                        |             |  |
| 3                        | HQAM       | 16          | 0            | 14.79                      | 14.85                      | 14.87                       |                        |             |  |
| 3                        | 25GQAM     | 1           | 0            | 14.85                      | 14.93                      | 14.85                       |                        |             |  |
| 3                        | 25GQAM     | 1           | 12           | 14.91                      | 14.83                      | 14.87                       | 16.4                   | 0           |  |
| 3                        | 25GQAM     | 1           | 14           | 14.96                      | 15.05                      | 14.89                       |                        |             |  |
| 3                        | 25GQAM     | 8           | 0            | 14.95                      | 14.88                      | 14.88                       |                        |             |  |
| 3                        | 25GQAM     | 8           | 4            | 14.98                      | 14.91                      | 14.86                       | 16.4                   | 0           |  |
| 3                        | 25GQAM     | 8           | 7            | 14.70                      | 14.94                      | 14.81                       |                        |             |  |
| 3                        | 25GQAM     | 16          | 0            | 14.82                      | 14.89                      | 14.81                       |                        |             |  |
| Frequency (MHz)          |            |             |              |                            |                            |                             |                        |             |  |
| 1970 1975 1980 1985 1990 |            |             |              |                            |                            |                             |                        |             |  |
| 1.4                      | QPSK       | 1           | 0            | 14.95                      | 14.91                      | 14.74                       | 16.4                   | 0           |  |
| 1.4                      | QPSK       | 1           | 3            | 14.94                      | 15.04                      | 14.88                       |                        |             |  |
| 1.4                      | QPSK       | 1           | 142          | 14.93                      | 14.93                      | 14.74                       |                        |             |  |
| 1.4                      | QPSK       | 3           | 0            | 14.98                      | 14.98                      | 14.84                       | 16.4                   | 0           |  |



| Band 5_Ant 0             |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
|--------------------------|------------|---------|-----------|----------------------|----------------------|-----------------------|---------------|----------|----|---|--|--|--|--|--|--|
| BW (MHz)                 | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq. | Timeuse (int) | MRR (dB) |    |   |  |  |  |  |  |  |
| Channel                  |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 26650 26650 3385.5 344   |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 1       | 0         | 22.45                | 22.50                | 22.57                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 1       | 25        | 22.52                | 22.63                | 22.69                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 1       | 49        | 22.62                | 22.72                | 22.81                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 25      | 0         | 22.55                | 22.58                | 22.56                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 25      | 12        | 22.43                | 22.50                | 22.56                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 25      | 25        | 22.54                | 22.54                | 22.53                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | QPSK       | 50      | 0         | 22.52                | 22.58                | 22.57                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 1       | 0         | 22.35                | 22.38                | 22.51                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 1       | 25        | 22.34                | 22.54                | 22.51                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 1       | 49        | 22.41                | 22.46                | 22.45                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 0         | 21.39                | 21.44                | 21.53                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 12        | 21.47                | 21.52                | 21.51                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 25        | 21.47                | 21.44                | 21.51                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 50      | 0         | 21.42                | 21.46                | 21.48                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 50      | 1         | 21.41                | 21.40                | 21.43                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 1       | 25        | 21.45                | 21.43                | 21.51                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 1       | 49        | 21.37                | 21.51                | 21.55                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 0         | 20.39                | 20.40                | 20.52                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 12        | 20.47                | 20.52                | 20.48                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | HQAM       | 25      | 25        | 20.45                | 20.46                | 20.47                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 1       | 0         | 18.82                | 18.82                | 18.79                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 1       | 25        | 18.87                | 18.86                | 18.82                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 25      | 0         | 18.80                | 18.84                | 18.83                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 25      | 12        | 18.84                | 18.88                | 18.85                 |               |          |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 25      | 25        | 18.84                | 18.87                | 18.82                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 10                       | SSBDM      | 50      | 0         | 18.82                | 18.83                | 18.81                 |               |          |    |   |  |  |  |  |  |  |
| Channel                  |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 26625 26625 3385.5 344.5 |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)          |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 1       | 0         | 22.42                | 22.42                | 22.52                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 1       | 12        | 22.48                | 22.60                | 22.58                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 1       | 24        | 22.52                | 22.54                | 22.48                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 12      | 0         | 22.44                | 22.67                | 22.58                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 12      | 7         | 22.38                | 22.44                | 22.54                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 12      | 13        | 22.39                | 22.53                | 22.48                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | QPSK       | 25      | 0         | 22.40                | 22.47                | 22.54                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 1       | 0         | 22.27                | 22.33                | 22.44                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 1       | 24        | 22.35                | 22.44                | 22.44                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 1       | 24        | 22.37                | 22.34                | 22.36                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 12      | 0         | 21.27                | 21.38                | 21.44                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 12      | 13        | 21.32                | 21.43                | 21.44                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 12      | 13        | 21.36                | 21.43                | 21.44                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 25      | 0         | 21.36                | 21.37                | 21.40                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 25      | 12        | 21.39                | 21.33                | 21.31                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 1       | 12        | 21.35                | 21.33                | 21.42                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | HQAM       | 1       | 24        | 21.29                | 21.43                | 21.47                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 12      | 0         | 20.31                | 20.33                | 20.42                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 12      | 7         | 20.40                | 20.41                | 20.37                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 12      | 13        | 20.41                | 20.35                | 20.48                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 25      | 0         | 20.36                | 20.40                | 20.39                 | 22            | 2        |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 25      | 12        | 18.74                | 18.74                | 18.75                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 25      | 12        | 18.81                | 18.85                | 18.87                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 25      | 24        | 18.80                | 18.83                | 18.88                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 12      | 7         | 18.74                | 18.76                | 18.75                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 12      | 13        | 18.71                | 18.76                | 18.70                 |               |          |    |   |  |  |  |  |  |  |
| 5                        | SSBDM      | 25      | 0         | 18.78                | 18.78                | 18.81                 |               |          |    |   |  |  |  |  |  |  |
| Channel                  |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 26615 26615 3385.5 344.5 |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)          |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 3                        | QPSK       | 1       | 0         | 22.33                | 22.39                | 22.53                 |               |          | 24 | 0 |  |  |  |  |  |  |
| 3                        | QPSK       | 1       | 8         | 22.48                | 22.56                | 22.58                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | QPSK       | 1       | 16        | 22.48                | 22.54                | 22.51                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | QPSK       | 8       | 4         | 22.38                | 22.39                | 22.52                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | QPSK       | 8       | 4         | 22.44                | 22.44                | 22.44                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 3                        | QPSK       | 16      | 0         | 22.43                | 22.50                | 22.46                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 1       | 0         | 22.32                | 22.31                | 22.39                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 1       | 8         | 22.36                | 22.42                | 22.44                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 1       | 16        | 22.36                | 22.36                | 22.36                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 8       | 0         | 21.31                | 21.38                | 21.43                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 8       | 4         | 21.38                | 21.46                | 21.42                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 8       | 7         | 21.39                | 21.37                | 21.46                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | HQAM       | 15      | 0         | 21.37                | 21.36                | 21.44                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 0         | 21.38                | 21.38                | 21.32                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 8         | 21.33                | 21.31                | 21.40                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 16        | 21.28                | 21.40                | 21.52                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 8       | 0         | 20.34                | 20.36                | 20.47                 | 22            | 2        |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 8       | 4         | 20.40                | 20.44                | 20.37                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 8       | 7         | 20.42                | 20.37                | 20.41                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 15      | 0         | 20.35                | 20.41                | 20.38                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 0         | 18.85                | 18.81                | 18.84                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 8         | 18.90                | 18.86                | 18.82                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 1       | 16        | 18.81                | 18.80                | 18.84                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 8       | 0         | 18.74                | 18.84                | 18.80                 |               |          |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 8       | 7         | 18.75                | 18.79                | 18.78                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 3                        | SSBDM      | 15      | 0         | 18.78                | 18.76                | 18.73                 |               |          |    |   |  |  |  |  |  |  |
| Channel                  |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 26617 26617 3385.5 344.5 |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)          |            |         |           |                      |                      |                       |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 1       | 0         | 22.33                | 22.39                | 22.49                 |               |          | 24 | 0 |  |  |  |  |  |  |
| 1.4                      | QPSK       | 1       | 3         | 22.48                | 22.56                | 22.51                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 1       | 6         | 22.35                | 22.47                | 22.52                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 3       | 0         | 22.51                | 22.49                | 22.51                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 3       | 1         | 22.40                | 22.42                | 22.46                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 6       | 0         | 22.43                | 22.46                | 22.44                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | QPSK       | 6       | 3         | 22.40                | 22.62                | 22.48                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 1       | 0         | 22.25                | 22.28                | 22.40                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 1       | 3         | 22.24                | 22.42                | 22.40                 | 24            | 0        |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 1       | 6         | 22.30                | 22.34                | 22.35                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 3       | 0         | 22.40                | 22.49                | 22.52                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 3       | 1         | 22.38                | 22.44                | 22.49                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 3       | 3         | 22.43                | 22.48                | 22.49                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 6       | 0         | 21.32                | 21.39                | 21.43                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 6       | 3         | 21.38                | 21.43                | 21.43                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 3       | 0         | 21.33                | 21.33                | 21.34                 | 23            | 1        |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 3       | 3         | 21.42                | 21.43                | 21.43                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 6       | 0         | 20.36                | 20.36                | 20.47                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | HQAM       | 6       | 3         | 20.40                | 20.44                | 20.37                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 1       | 0         | 18.85                | 18.86                | 18.82                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 1       | 3         | 18.92                | 18.93                | 18.94                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 1       | 6         | 18.87                | 18.83                | 18.92                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 1       | 9         | 18.78                | 18.78                | 18.84                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 3       | 0         | 18.76                | 18.85                | 18.78                 | 20            | 4        |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 3       | 3         | 18.80                | 18.84                | 18.73                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 3       | 6         | 18.82                | 18.82                | 18.82                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 3       | 9         | 18.78                | 18.78                | 18.81                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 6       | 0         | 18.74                | 18.74                | 18.74                 |               |          |    |   |  |  |  |  |  |  |
| 1.4                      | SSBDM      | 6       | 3         | 18.78                | 18.78                | 18.78                 |               |          |    |   |  |  |  |  |  |  |



| Band 13_Ant 0   |            |            |              |                             |                                |                              |                       |             |       |
|-----------------|------------|------------|--------------|-----------------------------|--------------------------------|------------------------------|-----------------------|-------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Midlow<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Turn-on<br>time (dBm) | MPE<br>(dB) |       |
| Channel         |            |            |              |                             |                                |                              | 23200                 |             |       |
| Frequency [MHz] |            |            |              |                             |                                |                              | 192                   |             |       |
| 10              | QPSK       | 1          | 0            | 22.88                       | 22.88                          |                              |                       | 24          | 0     |
| 10              | QPSK       | 1          | 25           | 22.70                       | 22.89                          |                              |                       |             |       |
| 10              | QPSK       | 25         | 0            | 22.88                       | 22.70                          |                              |                       |             |       |
| 10              | QPSK       | 25         | 12           | 22.81                       | 22.81                          |                              |                       |             |       |
| 10              | QPSK       | 25         | 25           | 22.78                       | 22.78                          |                              |                       | 24          | 0     |
| 10              | QPSK       | 50         | 0            | 22.85                       | 22.85                          |                              |                       |             |       |
| 10              | 16QAM      | 1          | 0            | 22.86                       | 22.86                          |                              |                       |             |       |
| 10              | 16QAM      | 1          | 49           | 22.73                       | 22.73                          |                              |                       |             |       |
| 10              | 16QAM      | 25         | 0            | 22.86                       | 22.86                          |                              |                       | 23          | 1     |
| 10              | 16QAM      | 25         | 12           | 22.85                       | 22.85                          |                              |                       |             |       |
| 10              | 16QAM      | 25         | 25           | 22.89                       | 22.89                          |                              |                       |             |       |
| 10              | 16QAM      | 50         | 0            | 22.82                       | 22.82                          |                              |                       |             |       |
| 10              | 16QAM      | 1          | 25           | 22.90                       | 22.90                          |                              |                       | 23          | 1     |
| 10              | 16QAM      | 1          | 49           | 22.86                       | 22.86                          |                              |                       |             |       |
| 10              | 16QAM      | 25         | 0            | 22.92                       | 22.92                          |                              |                       | 22          | 2     |
| 10              | 16QAM      | 25         | 12           | 22.93                       | 22.93                          |                              |                       |             |       |
| 10              | 16QAM      | 25         | 25           | 22.89                       | 22.89                          |                              |                       |             |       |
| 10              | 16QAM      | 50         | 0            | 22.81                       | 22.81                          |                              |                       |             |       |
| 10              | 256QAM     | 1          | 0            | 19.09                       | 19.09                          |                              |                       | 20          | 4     |
| 10              | 256QAM     | 1          | 25           | 18.74                       | 18.74                          |                              |                       |             |       |
| 10              | 256QAM     | 1          | 49           | 18.61                       | 18.61                          |                              |                       |             |       |
| 10              | 256QAM     | 25         | 0            | 18.77                       | 18.77                          |                              |                       |             |       |
| 10              | 256QAM     | 25         | 12           | 18.85                       | 18.85                          |                              |                       | 20          | 4     |
| 10              | 256QAM     | 25         | 25           | 18.62                       | 18.62                          |                              |                       |             |       |
| 10              | 256QAM     | 50         | 0            | 18.70                       | 18.70                          |                              |                       |             |       |
| Channel         |            |            |              |                             |                                |                              | 23205                 | 23210       | 23255 |
| Frequency [MHz] |            |            |              |                             |                                |                              | 220.8                 | 219.2       | 214.4 |
| 5               | QPSK       | 1          | 0            | 22.83                       | 22.82                          | 22.77                        |                       | 24          | 0     |
| 5               | QPSK       | 1          | 12           | 22.77                       | 22.78                          | 22.79                        |                       |             |       |
| 5               | QPSK       | 1          | 24           | 22.60                       | 22.62                          | 22.64                        |                       |             |       |
| 5               | QPSK       | 12         | 0            | 22.85                       | 22.84                          | 22.79                        |                       |             |       |
| 5               | QPSK       | 12         | 7            | 22.77                       | 22.77                          | 22.74                        |                       | 24          | 0     |
| 5               | QPSK       | 12         | 13           | 22.72                       | 22.69                          | 22.69                        |                       |             |       |
| 5               | QPSK       | 24         | 0            | 22.70                       | 22.73                          | 22.74                        |                       |             |       |
| 5               | 16QAM      | 1          | 0            | 22.76                       | 22.81                          | 22.78                        |                       |             |       |
| 5               | 16QAM      | 1          | 12           | 22.82                       | 22.77                          | 22.78                        |                       | 24          | 0     |
| 5               | 16QAM      | 1          | 24           | 22.64                       | 22.61                          | 22.64                        |                       |             |       |
| 5               | 16QAM      | 12         | 0            | 22.75                       | 22.81                          | 22.82                        |                       |             |       |
| 5               | 16QAM      | 12         | 7            | 22.81                       | 22.75                          | 22.81                        |                       |             |       |
| 5               | 16QAM      | 12         | 13           | 22.62                       | 22.61                          | 22.61                        |                       | 23          | 1     |
| 5               | 16QAM      | 24         | 0            | 22.74                       | 22.78                          | 22.78                        |                       |             |       |
| 5               | 16QAM      | 1          | 0            | 21.92                       | 21.90                          | 21.88                        |                       |             |       |
| 5               | 16QAM      | 1          | 12           | 21.84                       | 21.85                          | 21.84                        |                       |             |       |
| 5               | 16QAM      | 1          | 24           | 21.88                       | 21.81                          | 21.88                        |                       | 23          | 1     |
| 5               | 16QAM      | 12         | 0            | 20.83                       | 20.85                          | 20.86                        |                       |             |       |
| 5               | 16QAM      | 12         | 7            | 20.78                       | 20.72                          | 20.85                        |                       |             |       |
| 5               | 16QAM      | 12         | 13           | 20.57                       | 20.59                          | 20.61                        |                       |             |       |
| 5               | 256QAM     | 1          | 0            | 20.76                       | 20.78                          | 20.76                        |                       | 22          | 2     |
| 5               | 256QAM     | 1          | 0            | 18.68                       | 18.69                          | 18.67                        |                       |             |       |
| 5               | 256QAM     | 1          | 12           | 18.70                       | 18.68                          | 18.70                        |                       |             |       |
| 5               | 256QAM     | 1          | 24           | 18.56                       | 18.62                          | 18.54                        |                       |             |       |
| 5               | 256QAM     | 12         | 0            | 18.71                       | 18.71                          | 18.71                        |                       | 20          | 4     |
| 5               | 256QAM     | 12         | 7            | 18.76                       | 18.79                          | 18.77                        |                       |             |       |
| 5               | 256QAM     | 12         | 13           | 18.66                       | 18.60                          | 18.60                        |                       |             |       |
| 5               | 256QAM     | 24         | 0            | 18.66                       | 18.65                          | 18.63                        |                       |             |       |

| Band 13_Ant 1   |            |         |           |                     |                          |                      |                    |          |  |                    |          |  |
|-----------------|------------|---------|-----------|---------------------|--------------------------|----------------------|--------------------|----------|--|--------------------|----------|--|
| RF [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid-High Ch / Freq | Power High Ch / Freq | Turn-on time (dBm) | MPE (dB) |  |                    |          |  |
| Channel         |            |         |           | 25200               |                          |                      |                    |          |  |                    |          |  |
| Frequency (MHz) |            |         |           | 102                 |                          |                      |                    |          |  |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.14               | 22.14                    |                      | 23.5               | 0        |  |                    |          |  |
| 10              | QPSK       | 1       | 20        | 22.25               | 22.25                    |                      |                    |          |  |                    |          |  |
| 10              | QPSK       | 1       | 40        | 22.20               | 22.20                    |                      |                    |          |  |                    |          |  |
| 10              | QPSK       | 25      | 0         | 22.21               | 22.21                    |                      |                    |          |  |                    |          |  |
| 10              | QPSK       | 25      | 12        | 22.14               | 22.14                    |                      |                    |          |  |                    |          |  |
| 10              | QPSK       | 25      | 25        | 22.15               | 22.15                    |                      | 23.5               | 0        |  |                    |          |  |
| 10              | QPSK       | 50      | 0         | 22.16               | 22.16                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 1       | 0         | 22.16               | 22.16                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 1       | 20        | 22.16               | 22.16                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 1       | 40        | 22.24               | 22.24                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 25      | 0         | 21.42               | 21.42                    |                      | 23                 | 0.5      |  |                    |          |  |
| 10              | 16QAM      | 25      | 12        | 21.26               | 21.26                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 25      | 25        | 21.24               | 21.24                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 50      | 0         | 21.34               | 21.34                    |                      |                    |          |  |                    |          |  |
| 10              | 16QAM      | 50      | 25        | 21.74               | 21.74                    |                      |                    |          |  |                    |          |  |
| 10              | 64QAM      | 1       | 20        | 21.06               | 21.06                    |                      | 23                 | 0.5      |  |                    |          |  |
| 10              | 64QAM      | 1       | 40        | 21.39               | 21.39                    |                      |                    |          |  |                    |          |  |
| 10              | 64QAM      | 25      | 0         | 20.41               | 20.41                    |                      |                    |          |  |                    |          |  |
| 10              | 64QAM      | 25      | 12        | 20.38               | 20.38                    |                      |                    |          |  |                    |          |  |
| 10              | 64QAM      | 25      | 25        | 20.23               | 20.23                    |                      |                    |          |  |                    |          |  |
| 10              | 64QAM      | 50      | 0         | 20.37               | 20.37                    |                      | 22                 | 1.5      |  |                    |          |  |
| 10              | 64QAM      | 50      | 1         | 19.55               | 19.55                    |                      |                    |          |  |                    |          |  |
| 10              | 256QAM     | 1       | 20        | 18.40               | 18.40                    |                      |                    |          |  |                    |          |  |
| 10              | 256QAM     | 1       | 40        | 18.38               | 18.38                    |                      |                    |          |  |                    |          |  |
| 10              | 256QAM     | 25      | 0         | 18.32               | 18.32                    |                      |                    |          |  |                    |          |  |
| 10              | 256QAM     | 25      | 12        | 18.34               | 18.34                    |                      | 20                 | 3.5      |  |                    |          |  |
| 10              | 256QAM     | 25      | 20        | 18.23               | 18.23                    |                      |                    |          |  |                    |          |  |
| 10              | 256QAM     | 50      | 0         | 18.22               | 18.22                    |                      |                    |          |  |                    |          |  |
| Channel         |            |         |           | 25200               |                          |                      |                    |          |  | Turn-on time (dBm) | MPE (dB) |  |
| Frequency (MHz) |            |         |           | 25200               |                          |                      |                    |          |  |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.12               | 22.00                    | 22.05                | 23.5               | 0        |  |                    |          |  |
| 5               | QPSK       | 1       | 10        | 22.19               | 22.15                    | 22.23                |                    |          |  |                    |          |  |
| 5               | QPSK       | 1       | 20        | 22.10               | 22.11                    | 22.16                |                    |          |  |                    |          |  |
| 5               | QPSK       | 12      | 0         | 22.17               | 22.20                    | 22.06                |                    |          |  |                    |          |  |
| 5               | QPSK       | 12      | 7         | 22.10               | 21.99                    | 22.02                |                    |          |  |                    |          |  |
| 5               | QPSK       | 12      | 13        | 22.04               | 22.01                    | 22.03                | 23.5               | 0        |  |                    |          |  |
| 5               | QPSK       | 25      | 0         | 22.16               | 22.17                    | 22.13                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 1       | 0         | 22.10               | 22.05                    | 22.09                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 1       | 10        | 22.01               | 22.01                    | 22.03                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 1       | 12        | 22.01               | 22.01                    | 22.03                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 1       | 24        | 22.15               | 22.18                    | 22.10                | 23                 | 0.5      |  |                    |          |  |
| 5               | 16QAM      | 12      | 0         | 21.37               | 21.38                    | 21.39                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 12      | 7         | 21.25               | 21.25                    | 21.24                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 12      | 13        | 21.20               | 21.21                    | 21.20                |                    |          |  |                    |          |  |
| 5               | 16QAM      | 25      | 0         | 21.29               | 21.28                    | 21.25                |                    |          |  |                    |          |  |
| 5               | 64QAM      | 1       | 0         | 21.46               | 21.46                    | 21.46                | 23                 | 0.5      |  |                    |          |  |
| 5               | 64QAM      | 1       | 10        | 21.58               | 21.63                    | 21.62                |                    |          |  |                    |          |  |
| 5               | 64QAM      | 1       | 24        | 21.68               | 21.83                    | 21.28                |                    |          |  |                    |          |  |
| 5               | 64QAM      | 12      | 0         | 20.37               | 20.36                    | 20.35                |                    |          |  |                    |          |  |
| 5               | 64QAM      | 12      | 7         | 20.26               | 20.27                    | 20.27                |                    |          |  |                    |          |  |
| 5               | 64QAM      | 12      | 13        | 20.16               | 20.13                    | 20.11                | 22                 | 1.5      |  |                    |          |  |
| 5               | 64QAM      | 25      | 0         | 20.35               | 20.37                    | 20.33                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 1       | 0         | 18.52               | 18.45                    | 18.46                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 1       | 12        | 18.33               | 18.33                    | 18.37                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 1       | 24        | 18.35               | 18.35                    | 18.35                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 12      | 0         | 18.27               | 18.25                    | 18.25                | 20                 | 3.5      |  |                    |          |  |
| 5               | 256QAM     | 12      | 7         | 18.29               | 18.26                    | 18.23                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 12      | 13        | 18.20               | 18.13                    | 18.13                |                    |          |  |                    |          |  |
| 5               | 256QAM     | 25      | 0         | 18.12               | 18.13                    | 18.14                |                    |          |  |                    |          |  |
| Frequency (MHz) |            |         |           | 25200               |                          |                      |                    |          |  |                    |          |  |

| Band 14_Ant 0   |            |         |           |                     |                     |                      |              |          |   |  |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------|----------|---|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up (dB) | MFR (dB) |   |  |  |  |
| Channel 2330    |            |         |           |                     |                     |                      |              |          |   |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   |  |  |  |
| 10              | QPSK       | 1       | 0         |                     | 22.69               |                      | 24           | 0        |   |  |  |  |
| 10              | QPSK       | 1       | 25        |                     | 22.71               |                      |              |          |   |  |  |  |
| 10              | QPSK       | 1       | 49        |                     | 22.86               |                      |              |          |   |  |  |  |
| 10              | QPSK       | 25      | 0         |                     | 22.74               |                      |              |          |   |  |  |  |
| 10              | QPSK       | 25      | 12        |                     | 22.73               |                      | 24           | 0        |   |  |  |  |
| 10              | QPSK       | 25      | 25        |                     | 22.69               |                      |              |          |   |  |  |  |
| 10              | QPSK       | 50      | 0         |                     | 22.71               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 1       | 0         |                     | 22.64               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 1       | 25        |                     | 22.69               |                      | 24           | 0        |   |  |  |  |
| 10              | 16QAM      | 1       | 49        |                     | 22.69               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 25      | 0         |                     | 22.73               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 25      | 12        |                     | 22.74               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 25      | 25        |                     | 22.17               |                      | 23           | 1        |   |  |  |  |
| 10              | 16QAM      | 50      | 0         |                     | 22.10               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 1       | 0         |                     | 22.04               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 1       | 25        |                     | 22.05               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 1       | 49        |                     | 22.02               |                      | 22           | 2        |   |  |  |  |
| 10              | 16QAM      | 25      | 0         |                     | 21.70               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 25      | 12        |                     | 21.11               |                      |              |          |   |  |  |  |
| 10              | 16QAM      | 25      | 25        |                     | 21.11               |                      |              |          |   |  |  |  |
| 10              | 256QAM     | 1       | 0         |                     | 21.13               |                      | 20           | 4        |   |  |  |  |
| 10              | 256QAM     | 1       | 25        |                     | 19.38               |                      |              |          |   |  |  |  |
| 10              | 256QAM     | 1       | 49        |                     | 19.31               |                      |              |          |   |  |  |  |
| 10              | 256QAM     | 25      | 0         |                     | 19.20               |                      |              |          |   |  |  |  |
| 10              | 256QAM     | 25      | 12        |                     | 19.23               |                      | 20           | 4        |   |  |  |  |
| 10              | 256QAM     | 25      | 25        |                     | 19.25               |                      |              |          |   |  |  |  |
| 10              | 256QAM     | 50      | 0         |                     | 19.17               |                      |              |          |   |  |  |  |
| Channel 2335    |            |         |           |                     |                     |                      |              |          |   |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |   |  |  |  |
| 5               | QPSK       | 1       | 0         |                     | 22.61               | 22.61                | 22.64        | 24       | 0 |  |  |  |
| 5               | QPSK       | 1       | 12        |                     | 22.60               | 22.60                | 22.68        |          |   |  |  |  |
| 5               | QPSK       | 1       | 24        |                     | 22.40               | 22.12                | 22.00        |          |   |  |  |  |
| 5               | QPSK       | 12      | 0         |                     | 22.66               | 22.63                | 22.66        |          |   |  |  |  |
| 5               | QPSK       | 12      | 7         |                     | 22.61               | 22.62                | 22.68        | 24       | 0 |  |  |  |
| 5               | QPSK       | 12      | 13        |                     | 22.60               | 22.62                | 22.61        |          |   |  |  |  |
| 5               | QPSK       | 25      | 0         |                     | 22.67               | 22.68                | 22.63        |          |   |  |  |  |
| 5               | 16QAM      | 1       | 0         |                     | 22.58               | 22.52                | 22.54        |          |   |  |  |  |
| 5               | 16QAM      | 1       | 12        |                     | 22.50               | 22.52                | 22.59        | 24       | 0 |  |  |  |
| 5               | 16QAM      | 1       | 24        |                     | 22.62               | 22.65                | 22.65        |          |   |  |  |  |
| 5               | 16QAM      | 12      | 0         |                     | 22.64               | 22.64                | 21.98        |          |   |  |  |  |
| 5               | 16QAM      | 12      | 13        |                     | 22.60               | 22.10                | 22.02        |          |   |  |  |  |
| 5               | 16QAM      | 12      | 19        |                     | 22.10               | 22.10                | 22.13        | 23       | 1 |  |  |  |
| 5               | 16QAM      | 25      | 0         |                     | 22.62               | 21.99                | 22.07        |          |   |  |  |  |
| 5               | 16QAM      | 1       | 0         |                     | 21.94               | 21.98                | 21.93        |          |   |  |  |  |
| 5               | 16QAM      | 1       | 12        |                     | 21.90               | 21.98                | 22.01        |          |   |  |  |  |
| 5               | 16QAM      | 1       | 24        |                     | 21.86               | 21.92                | 21.97        | 22       | 2 |  |  |  |
| 5               | 16QAM      | 12      | 7         |                     | 21.94               | 21.06                | 20.88        |          |   |  |  |  |
| 5               | 16QAM      | 12      | 13        |                     | 21.97               | 21.06                | 21.01        |          |   |  |  |  |
| 5               | 16QAM      | 12      | 19        |                     | 21.86               | 20.90                | 21.03        |          |   |  |  |  |
| 5               | 256QAM     | 1       | 0         |                     | 19.20               | 19.30                | 19.35        | 20       | 4 |  |  |  |
| 5               | 256QAM     | 1       | 12        |                     | 19.25               | 19.26                | 19.22        |          |   |  |  |  |
| 5               | 256QAM     | 1       | 24        |                     | 19.13               | 19.26                | 19.24        |          |   |  |  |  |
| 5               | 256QAM     | 12      | 0         |                     | 19.13               | 19.12                | 19.11        |          |   |  |  |  |
| 5               | 256QAM     | 12      | 7         |                     | 19.17               | 19.13                | 19.16        | 20       | 4 |  |  |  |
| 5               | 256QAM     | 12      | 13        |                     | 19.10               | 19.15                | 19.16        |          |   |  |  |  |
| 5               | 256QAM     | 25      | 0         |                     | 19.10               | 19.06                | 19.06        |          |   |  |  |  |
| 5               | 256QAM     | 25      | 0         |                     | 19.10               | 19.06                | 19.06        |          |   |  |  |  |

| Band 14_Ant 1   |            |         |           |                     |                     |                      |              |          |     |  |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------|----------|-----|--|--|--|
| BW (Hz)         | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up (dB) | MFR (dB) |     |  |  |  |
| Channel 7330    |            |         |           |                     |                     |                      |              |          |     |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |     |  |  |  |
| 10              | QPSK       | 1       | 0         |                     | 20.90               |                      | 22.5         | 0        |     |  |  |  |
| 10              | QPSK       | 1       | 25        |                     | 21.03               |                      |              |          |     |  |  |  |
| 10              | QPSK       | 1       | 49        |                     | 20.95               |                      |              |          |     |  |  |  |
| 10              | QPSK       | 25      | 0         |                     | 20.98               |                      |              |          |     |  |  |  |
| 10              | QPSK       | 25      | 12        |                     | 20.96               |                      | 22.5         | 0        |     |  |  |  |
| 10              | QPSK       | 25      | 25        |                     | 20.91               |                      |              |          |     |  |  |  |
| 10              | QPSK       | 50      | 0         |                     | 20.89               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 1       | 0         |                     | 20.91               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 1       | 25        |                     | 20.95               |                      | 22.5         | 0        |     |  |  |  |
| 10              | 16QAM      | 1       | 49        |                     | 20.96               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 25      | 0         |                     | 20.91               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 25      | 12        |                     | 20.98               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 25      | 25        |                     | 21.02               |                      | 22.5         | 0        |     |  |  |  |
| 10              | 16QAM      | 50      | 0         |                     | 20.90               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 1       | 0         |                     | 20.90               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 1       | 25        |                     | 20.94               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 1       | 49        |                     | 21.02               |                      | 22           | 0.5      |     |  |  |  |
| 10              | 16QAM      | 25      | 0         |                     | 20.73               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 25      | 12        |                     | 20.76               |                      |              |          |     |  |  |  |
| 10              | 16QAM      | 25      | 25        |                     | 20.82               |                      |              |          |     |  |  |  |
| 10              | 256QAM     | 1       | 0         |                     | 19.05               |                      | 20           | 2.5      |     |  |  |  |
| 10              | 256QAM     | 1       | 25        |                     | 19.06               |                      |              |          |     |  |  |  |
| 10              | 256QAM     | 1       | 49        |                     | 19.03               |                      |              |          |     |  |  |  |
| 10              | 256QAM     | 25      | 0         |                     | 19.07               |                      |              |          |     |  |  |  |
| 10              | 256QAM     | 25      | 12        |                     | 18.88               |                      | 20           | 2.5      |     |  |  |  |
| 10              | 256QAM     | 25      | 25        |                     | 18.93               |                      |              |          |     |  |  |  |
| 10              | 256QAM     | 50      | 0         |                     | 18.89               |                      |              |          |     |  |  |  |
| Channel 7335    |            |         |           |                     |                     |                      |              |          |     |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |              |          |     |  |  |  |
| 5               | QPSK       | 1       | 0         |                     | 20.79               | 20.83                | 20.84        | 22.5     | 0   |  |  |  |
| 5               | QPSK       | 1       | 12        |                     | 20.97               | 20.91                | 20.94        |          |     |  |  |  |
| 5               | QPSK       | 1       | 24        |                     | 20.80               | 20.09                | 20.87        |          |     |  |  |  |
| 5               | QPSK       | 12      | 0         |                     | 20.90               | 20.76                | 20.81        |          |     |  |  |  |
| 5               | QPSK       | 12      | 7         |                     | 20.84               | 20.83                | 20.83        | 22.5     | 0   |  |  |  |
| 5               | QPSK       | 12      | 13        |                     | 20.73               | 20.00                | 20.83        |          |     |  |  |  |
| 5               | QPSK       | 25      | 0         |                     | 20.78               | 20.76                | 20.88        |          |     |  |  |  |
| 5               | 16QAM      | 1       | 0         |                     | 20.88               | 20.80                | 20.88        |          |     |  |  |  |
| 5               | 16QAM      | 1       | 12        |                     | 20.82               | 20.91                | 20.92        | 22.5     | 0   |  |  |  |
| 5               | 16QAM      | 1       | 24        |                     | 20.83               | 20.77                | 20.80        |          |     |  |  |  |
| 5               | 16QAM      | 12      | 0         |                     | 20.80               | 20.78                | 20.76        |          |     |  |  |  |
| 5               | 16QAM      | 12      | 7         |                     | 20.89               | 20.76                | 20.84        |          |     |  |  |  |
| 5               | 16QAM      | 12      | 13        |                     | 20.99               | 20.96                | 20.90        | 22.5     | 0   |  |  |  |
| 5               | 16QAM      | 25      | 0         |                     | 20.84               | 20.88                | 20.75        |          |     |  |  |  |
| 5               | 16QAM      | 1       | 0         |                     | 20.80               | 20.75                | 20.85        |          |     |  |  |  |
| 5               | 16QAM      | 1       | 12        |                     | 20.84               | 20.79                | 20.85        |          |     |  |  |  |
| 5               | 16QAM      | 1       | 24        |                     | 20.86               | 20.95                | 20.97        | 22       | 0.5 |  |  |  |
| 5               | 16QAM      | 12      | 0         |                     | 20.89               | 20.88                | 20.82        |          |     |  |  |  |
| 5               | 16QAM      | 12      | 7         |                     | 20.70               | 20.65                | 20.64        |          |     |  |  |  |
| 5               | 16QAM      | 12      | 13        |                     | 20.76               | 20.10                | 20.72        |          |     |  |  |  |
| 5               | 256QAM     | 1       | 0         |                     | 18.90               | 19.00                | 19.06        | 20       | 2.5 |  |  |  |
| 5               | 256QAM     | 1       | 12        |                     | 19.07               | 19.01                | 19.00        |          |     |  |  |  |
| 5               | 256QAM     | 1       | 24        |                     | 18.93               | 18.92                | 19.06        |          |     |  |  |  |
| 5               | 256QAM     | 12      | 0         |                     | 18.80               | 18.90                | 18.85        |          |     |  |  |  |
| 5               | 256QAM     | 12      | 7         |                     | 18.90               | 18.83                | 18.83        | 20       | 2.5 |  |  |  |
| 5               | 256QAM     | 12      | 13        |                     | 18.83               | 18.85                | 18.88        |          |     |  |  |  |
| 5               | 256QAM     | 25      | 0         |                     | 18.78               | 18.85                | 18.80        |          |     |  |  |  |
| 5               | 256QAM     | 25      | 0         |                     | 18.78               | 18.85                | 18.80        |          |     |  |  |  |

| Band 17_Ant 0   |            |         |           |                     |                     |                      |             |          |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|-------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tuneup (dB) | MFR (dB) |  |
| Channel         |            |         |           | 21790               | 21790               | 21800                |             |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |             |          |  |
| 10              | QPSK       | 1       | 0         | 22.72               | 22.71               | 22.75                | 24          | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.61               | 22.66               | 22.92                |             |          |  |
| 10              | QPSK       | 1       | 49        | 22.63               | 22.69               | 22.85                |             |          |  |
| 10              | QPSK       | 25      | 0         | 22.70               | 22.64               | 22.72                |             |          |  |
| 10              | QPSK       | 25      | 12        | 22.63               | 22.61               | 22.80                | 24          |          |  |
| 10              | QPSK       | 25      | 25        | 22.60               | 22.66               | 22.75                |             |          |  |
| 10              | QPSK       | 50      | 0         | 22.65               | 22.61               | 22.86                |             |          |  |
| 10              | 16QAM      | 1       | 0         | 22.71               | 22.66               | 22.83                |             |          |  |
| 10              | 16QAM      | 1       | 25        | 22.62               | 22.64               | 22.85                | 24          | 0        |  |
| 10              | 16QAM      | 1       | 49        | 22.69               | 22.94               | 22.85                |             |          |  |
| 10              | 16QAM      | 25      | 0         | 22.61               | 22.63               | 22.59                |             |          |  |
| 10              | 16QAM      | 25      | 12        | 22.17               | 22.14               | 22.12                |             |          |  |
| 10              | 16QAM      | 25      | 25        | 22.13               | 22.16               | 22.15                | 23          | 1        |  |
| 10              | 16QAM      | 50      | 0         | 22.07               | 22.08               | 22.07                |             |          |  |
| 10              | 16QAM      | 1       | 0         | 22.21               | 22.23               | 22.13                |             |          |  |
| 10              | 16QAM      | 1       | 25        | 22.30               | 22.05               | 22.37                |             |          |  |
| 10              | 16QAM      | 1       | 49        | 22.32               | 22.05               | 22.37                | 23          | 1        |  |
| 10              | 16QAM      | 1       | 25        | 22.30               | 22.40               | 22.27                |             |          |  |
| 10              | 16QAM      | 1       | 49        | 22.36               | 22.54               | 22.36                |             |          |  |
| 10              | 16QAM      | 25      | 0         | 22.15               | 22.11               | 22.11                |             |          |  |
| 10              | 16QAM      | 25      | 25        | 22.14               | 22.13               | 22.13                | 22          |          |  |
| 10              | 16QAM      | 50      | 0         | 22.08               | 22.09               | 22.08                |             |          |  |
| 10              | 16QAM      | 1       | 0         | 22.11               | 22.13               | 22.11                |             |          |  |
| 10              | 16QAM      | 1       | 25        | 22.11               | 22.13               | 22.11                |             |          |  |
| 10              | 16QAM      | 1       | 49        | 22.19               | 22.18               | 22.18                | 20          | 4        |  |
| 10              | 16QAM      | 1       | 25        | 22.19               | 22.30               | 22.23                |             |          |  |
| 10              | 16QAM      | 1       | 49        | 22.13               | 22.15               | 22.15                |             |          |  |
| 10              | 16QAM      | 25      | 0         | 22.18               | 22.20               | 22.18                |             |          |  |
| 10              | 16QAM      | 25      | 12        | 22.18               | 22.20               | 22.18                | 20          | 4        |  |
| 10              | 16QAM      | 25      | 25        | 22.13               | 22.23               | 22.13                |             |          |  |
| 10              | 16QAM      | 50      | 0         | 22.09               | 22.14               | 22.12                |             |          |  |
| Channel         |            |         |           | 21795               | 21795               | 21805                |             |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      | Tuneup (dB) | MFR (dB) |  |
| 5               | QPSK       | 1       | 0         | 22.63               | 22.61               | 22.68                | 24          | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.79               | 22.68               | 22.67                |             |          |  |
| 5               | QPSK       | 1       | 24        | 22.80               | 22.80               | 22.62                |             |          |  |
| 5               | QPSK       | 12      | 0         | 22.84               | 22.78               | 22.78                |             |          |  |
| 5               | QPSK       | 12      | 7         | 22.72               | 22.62               | 22.72                | 24          | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.78               | 22.71               | 22.69                |             |          |  |
| 5               | QPSK       | 12      | 19        | 22.83               | 22.81               | 22.69                |             |          |  |
| 5               | 16QAM      | 1       | 0         | 22.65               | 22.60               | 22.75                |             |          |  |
| 5               | 16QAM      | 1       | 12        | 22.80               | 22.84               | 22.68                | 24          | 0        |  |
| 5               | 16QAM      | 1       | 24        | 22.86               | 22.84               | 22.73                |             |          |  |
| 5               | 16QAM      | 12      | 0         | 21.97               | 21.91               | 21.97                |             |          |  |
| 5               | 16QAM      | 12      | 7         | 22.05               | 22.09               | 22.08                |             |          |  |
| 5               | 16QAM      | 12      | 13        | 22.20               | 22.18               | 22.18                | 23          | 1        |  |
| 5               | 16QAM      | 12      | 19        | 22.25               | 22.24               | 22.21                |             |          |  |
| 5               | 16QAM      | 24      | 0         | 21.97               | 22.01               | 22.01                |             |          |  |
| 5               | 16QAM      | 24      | 10        | 22.02               | 22.08               | 22.02                |             |          |  |
| 5               | 16QAM      | 1       | 24        | 22.32               | 22.30               | 22.17                | 23          | 1        |  |
| 5               | 16QAM      | 1       | 12        | 22.30               | 22.31               | 22.17                |             |          |  |
| 5               | 16QAM      | 1       | 0         | 22.34               | 22.34               | 22.17                |             |          |  |
| 5               | 16QAM      | 12      | 7         | 21.05               | 21.01               | 21.02                |             |          |  |
| 5               | 16QAM      | 12      | 13        | 21.05               | 21.04               | 21.05                | 20          | 4        |  |
| 5               | 16QAM      | 12      | 19        | 21.07               | 21.07               | 21.07                |             |          |  |
| 5               | 16QAM      | 24      | 0         | 21.08               | 21.02               | 21.06                |             |          |  |
| 5               | 16QAM      | 24      | 10        | 21.02               | 21.02               | 21.06                |             |          |  |
| 5               | 16QAM      | 1       | 12        | 19.02               | 19.02               | 19.31                | 20          | 4        |  |
| 5               | 16QAM      | 1       | 0         | 19.03               | 19.19               | 19.31                |             |          |  |
| 5               | 16QAM      | 12      | 7         | 19.06               | 19.03               | 19.31                |             |          |  |
| 5               | 16QAM      | 12      | 13        | 19.06               | 19.12               | 19.30                |             |          |  |
| 5               | 16QAM      | 12      | 19        | 19.06               | 19.14               | 19.30                | 20          | 4        |  |
| 5               | 16QAM      | 24      | 0         | 19.01               | 19.04               | 19.30                |             |          |  |
| 5               | 16QAM      | 24      | 10        | 19.01               | 19.04               | 19.30                |             |          |  |
| 5               | 16QAM      | 24      | 10        | 19.01               | 19.04               | 19.30                |             |          |  |



| Band 25_Ant 0   |            |         |           |                     |                      |                      |                    |          |  |  |  |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Time-up Int. (sec) | MPE (dB) |  |  |  |  |
| Channel         |            |         |           | 20165               | 20365                | 20565                |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 1860                | 1880                 | 1900                 |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 14.93               | 15.02                | 15.09                |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 15.11               | 15.17                | 15.25                | 10.4               | 0        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 14.95               | 14.99                | 15.05                |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 15.11               | 15.15                | 15.19                |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 14.99               | 15.09                | 14.93                | 10.4               | 0        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 14.92               | 15.13                | 14.99                |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.12               | 15.14                | 14.89                | 10.4               | 0        |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.07               | 15.14                | 14.91                |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 15.04               | 15.05                | 15.05                |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.07               | 15.15                | 14.93                | 10.4               | 0        |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 14.97               | 15.10                | 14.90                |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 14.99               | 15.07                | 15.08                |                    |          |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.02               | 15.11                | 15.05                |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.13               | 15.11                | 15.09                |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.00               | 15.10                | 15.01                | 10.4               | 0        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 15.03               | 15.11                | 15.08                |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.08               | 15.07                | 14.94                |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 14.95               | 15.15                | 14.93                | 10.4               | 0        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 14.92               | 15.07                | 14.99                |                    |          |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 14.95               | 15.04                | 14.88                |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.13               | 15.15                | 15.05                | 10.4               | 0        |  |  |  |  |
| 20              | 256QAM     | 1       | 0         | 14.90               | 15.10                | 14.89                | 10.4               | 0        |  |  |  |  |
| 20              | 256QAM     | 1       | 49        | 15.10               | 15.15                | 14.88                |                    |          |  |  |  |  |
| 20              | 256QAM     | 50      | 0         | 14.98               | 15.13                | 14.99                |                    |          |  |  |  |  |
| 20              | 256QAM     | 50      | 24        | 14.98               | 15.11                | 14.91                | 10.4               | 0        |  |  |  |  |
| 20              | 256QAM     | 50      | 50        | 14.94               | 15.10                | 14.87                |                    |          |  |  |  |  |
| 20              | 256QAM     | 100     | 0         | 14.98               | 15.05                | 14.91                |                    |          |  |  |  |  |
| Channel         |            |         |           | 20165               | 20365                | 20565                |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 1860.5              | 1880.5               | 1900.5               |                    |          |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 14.74               | 14.88                | 14.83                |                    |          |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 14.99               | 14.97                | 14.93                | 10.4               | 0        |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 14.75               | 14.88                | 14.80                |                    |          |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 14.87               | 14.88                | 14.89                |                    |          |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 14.92               | 14.85                | 14.82                | 10.4               | 0        |  |  |  |  |
| 15              | QPSK       | 36      | 36        | 14.74               | 14.88                | 14.79                |                    |          |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 14.89               | 14.95                | 14.93                |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 14.97               | 14.95                | 14.64                | 10.4               | 0        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 14.88               | 15.03                | 14.79                |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 14.80               | 14.91                | 14.85                |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 14.86               | 14.95                | 14.74                | 10.4               | 0        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 14.80               | 14.94                | 14.75                |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 36        | 14.82               | 14.89                | 14.89                |                    |          |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 14.88               | 14.96                | 14.86                |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 14.94               | 14.98                | 14.82                | 10.4               | 0        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 14.85               | 14.98                | 14.79                |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 14.83               | 14.88                | 14.96                |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 14.95               | 14.88                | 14.75                | 10.4               | 0        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.04               | 14.92                | 14.85                |                    |          |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 14.75               | 14.88                | 14.87                |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 14.89               | 14.87                | 14.87                | 10.4               | 0        |  |  |  |  |
| 15              | 256QAM     | 1       | 0         | 14.86               | 14.99                | 14.74                |                    |          |  |  |  |  |
| 15              | 256QAM     | 1       | 37        | 14.96               | 14.99                | 14.74                |                    |          |  |  |  |  |
| 15              | 256QAM     | 36      | 0         | 14.74               | 15.00                | 14.87                | 10.4               | 0        |  |  |  |  |
| 15              | 256QAM     | 36      | 20        | 14.87               | 14.96                | 14.89                |                    |          |  |  |  |  |
| 15              | 256QAM     | 36      | 36        | 14.75               | 14.91                | 14.79                | 10.4               | 0        |  |  |  |  |
| 15              | 256QAM     | 75      | 0         | 14.82               | 14.94                | 14.89                |                    |          |  |  |  |  |
| Channel         |            |         |           | 20165               | 20365                | 20565                |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 1865                | 1885                 | 1905                 |                    |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 14.72               | 14.90                | 14.79                |                    |          |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 14.98               | 14.93                | 14.83                | 10.4               | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 14.85               | 14.78                | 14.87                |                    |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 14.91               | 14.95                | 14.75                |                    |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 14.85               | 14.97                | 14.75                | 10.4               | 0        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 14.79               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 14.86               | 14.94                | 14.88                |                    |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 14.91               | 15.02                | 14.72                | 10.4               | 0        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 14.88               | 14.93                | 14.89                |                    |          |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 14.87               | 14.89                | 14.88                |                    |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 14.93               | 14.94                | 14.70                | 10.4               | 0        |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 14.86               | 15.04                | 14.85                |                    |          |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 14.77               | 14.82                | 14.76                |                    |          |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 14.76               | 14.80                | 14.71                | 10.4               | 0        |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 14.81               | 14.89                | 14.78                |                    |          |  |  |  |  |
| 10              | 256QAM     | 1       | 0         | 14.91               | 14.90                | 14.74                | 10.4               | 0        |  |  |  |  |
| 10              | 256QAM     | 1       | 49        | 14.95               | 15.01                | 14.75                |                    |          |  |  |  |  |
| 10              | 256QAM     | 25      | 0         | 14.76               | 14.96                | 14.81                |                    |          |  |  |  |  |
| 10              | 256QAM     | 25      | 12        | 14.84               | 14.95                | 14.80                | 10.4               | 0        |  |  |  |  |
| 10              | 256QAM     | 25      | 25        | 14.79               | 14.85                | 14.75                |                    |          |  |  |  |  |
| 10              | 256QAM     | 50      | 0         | 14.77               | 14.86                | 14.78                |                    |          |  |  |  |  |
| Channel         |            |         |           | 20165               | 20365                | 20565                |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 1865.5              | 1885.5               | 1905.5               |                    |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 14.77               | 14.90                | 14.85                |                    |          |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 14.97               | 14.99                | 14.94                | 10.4               | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 14.71               | 14.88                | 14.83                |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 14.94               | 14.94                | 14.94                |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 14.81               | 14.89                | 14.76                | 10.4               | 0        |  |  |  |  |
| 5               | QPSK       | 12      | 14        | 14.77               | 15.00                | 14.81                |                    |          |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 14.76               | 14.96                | 14.77                |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 14.97               | 15.01                | 14.71                | 10.4               | 0        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 14.78               | 14.99                | 14.81                |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        | 14.79               | 14.91                | 14.92                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 0         | 14.94               | 14.90                | 14.75                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 12      | 7         | 14.82               | 14.92                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 12      | 14        | 14.81               | 14.81                | 14.82                |                    |          |  |  |  |  |
| 5               | 256QAM     | 25      | 0         | 14.79               | 14.97                | 14.85                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 0         | 14.91               | 14.97                | 14.89                | 10.4               | 0        |  |  |  |  |
| 5               | 256QAM     | 1       | 12        | 14.79               | 14.85                | 14.81                |                    |          |  |  |  |  |
| 5               | 256QAM     | 1       | 24        |                     |                      |                      |                    |          |  |  |  |  |

| Band 26(FCC)_Ant 1 |            |         |           |                     |                     |                      |                    |          |  |  |
|--------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Time-up Int. (Sec) | MPE (dB) |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           |                     |                     |                      |                    |          |  |  |
| 15                 | QPSK       | 1       | 0         | 20.95               | 21.04               | 20.97                |                    |          |  |  |
| 15                 | QPSK       | 1       | 37        | 21.06               | 21.18               | 21.07                | 22.4               | 0        |  |  |
| 15                 | QPSK       | 1       | 74        | 21.05               | 21.05               | 21.05                |                    |          |  |  |
| 15                 | QPSK       | 36      | 20        | 20.95               | 21.15               | 20.93                |                    |          |  |  |
| 15                 | QPSK       | 36      | 39        | 21.02               | 21.14               | 20.97                |                    |          |  |  |
| 15                 | QPSK       | 75      | 0         | 21.04               | 21.11               | 21.02                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 0         | 21.01               | 21.17               | 21.05                | 22.4               | 0        |  |  |
| 15                 | 16QAM      | 1       | 37        | 21.01               | 21.08               | 20.97                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 74        | 21.05               | 21.15               | 21.06                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 0         | 21.01               | 21.16               | 20.96                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 20        | 21.00               | 21.17               | 20.94                | 22.4               | 0        |  |  |
| 15                 | 16QAM      | 36      | 39        | 21.03               | 21.14               | 21.05                |                    |          |  |  |
| 15                 | 16QAM      | 75      | 0         | 20.95               | 21.16               | 20.95                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 0         | 20.95               | 21.03               | 20.95                |                    |          |  |  |
| 15                 | 16QAM      | 1       | 37        | 21.05               | 21.11               | 20.99                | 22.4               | 0        |  |  |
| 15                 | 16QAM      | 1       | 74        | 21.03               | 21.13               | 21.04                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 0         | 20.90               | 20.17               | 20.36                |                    |          |  |  |
| 15                 | 16QAM      | 36      | 20        | 20.98               | 20.25               | 20.39                | 22                 | 0.4      |  |  |
| 15                 | 16QAM      | 36      | 39        | 20.99               | 20.30               | 20.36                |                    |          |  |  |
| 15                 | 16QAM      | 75      | 0         | 20.10               | 20.29               | 20.32                |                    |          |  |  |
| 15                 | 256QAM     | 1       | 0         | 18.30               | 18.32               | 18.29                |                    |          |  |  |
| 15                 | 256QAM     | 1       | 37        | 18.32               | 18.36               | 18.32                | 20                 | 2.4      |  |  |
| 15                 | 256QAM     | 1       | 74        | 18.45               | 18.73               | 18.64                |                    |          |  |  |
| 15                 | 256QAM     | 36      | 0         | 18.27               | 18.35               | 18.32                |                    |          |  |  |
| 15                 | 256QAM     | 36      | 20        | 18.43               | 18.44               | 18.42                | 20                 | 2.4      |  |  |
| 15                 | 256QAM     | 36      | 39        | 18.43               | 18.45               | 18.38                |                    |          |  |  |
| 15                 | 256QAM     | 75      | 0         | 18.41               | 18.48               | 18.42                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           |                     |                     |                      |                    |          |  |  |
| 817.5 811.5 850.5  |            |         |           |                     |                     |                      |                    |          |  |  |
| 10                 | QPSK       | 1       | 0         | 20.84               | 21.00               | 20.89                |                    |          |  |  |
| 10                 | QPSK       | 1       | 25        | 21.04               | 21.08               | 21.05                | 22.4               | 0        |  |  |
| 10                 | QPSK       | 1       | 49        | 21.08               | 21.08               | 21.08                |                    |          |  |  |
| 10                 | QPSK       | 25      | 0         | 20.90               | 21.10               | 20.99                |                    |          |  |  |
| 10                 | QPSK       | 25      | 12        | 20.83               | 21.13               | 20.85                | 22.4               | 0        |  |  |
| 10                 | QPSK       | 25      | 25        | 20.83               | 21.00               | 20.92                |                    |          |  |  |
| 10                 | QPSK       | 50      | 0         | 20.91               | 21.00               | 20.89                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 0         | 20.89               | 21.06               | 20.97                | 22.4               | 0        |  |  |
| 10                 | 16QAM      | 1       | 25        | 20.95               | 20.99               | 20.96                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 49        | 20.92               | 21.11               | 20.95                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 0         | 20.99               | 21.04               | 20.93                | 22.4               | 0        |  |  |
| 10                 | 16QAM      | 25      | 12        | 20.85               | 21.03               | 20.94                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 25        | 20.91               | 21.03               | 20.94                |                    |          |  |  |
| 10                 | 16QAM      | 50      | 0         | 20.82               | 21.07               | 20.83                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 0         | 20.84               | 21.01               | 20.92                |                    |          |  |  |
| 10                 | 16QAM      | 1       | 25        | 20.93               | 21.03               | 20.95                | 22.4               | 0        |  |  |
| 10                 | 16QAM      | 1       | 49        | 21.01               | 21.03               | 20.95                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 0         | 20.90               | 20.98               | 20.92                |                    |          |  |  |
| 10                 | 16QAM      | 25      | 12        | 20.90               | 20.15               | 20.34                | 22                 | 0.4      |  |  |
| 10                 | 16QAM      | 25      | 25        | 20.92               | 20.21               | 20.35                |                    |          |  |  |
| 10                 | 16QAM      | 50      | 0         | 20.97               | 20.23               | 20.35                |                    |          |  |  |
| 10                 | 256QAM     | 1       | 0         | 18.21               | 18.23               | 18.19                |                    |          |  |  |
| 10                 | 256QAM     | 1       | 25        | 18.43               | 18.49               | 18.40                | 20                 | 2.4      |  |  |
| 10                 | 256QAM     | 1       | 49        | 18.34               | 18.65               | 18.52                |                    |          |  |  |
| 10                 | 256QAM     | 25      | 0         | 18.20               | 18.25               | 18.22                |                    |          |  |  |
| 10                 | 256QAM     | 25      | 12        | 18.37               | 18.34               | 18.35                | 20                 | 2.4      |  |  |
| 10                 | 256QAM     | 25      | 25        | 18.31               | 18.35               | 18.33                |                    |          |  |  |
| 10                 | 256QAM     | 50      | 0         | 18.38               | 18.41               | 18.39                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           |                     |                     |                      |                    |          |  |  |
| 817.5 811.5 850.5  |            |         |           |                     |                     |                      |                    |          |  |  |
| 5                  | QPSK       | 1       | 0         | 20.87               | 20.90               | 20.88                |                    |          |  |  |
| 5                  | QPSK       | 1       | 12        | 21.01               | 21.09               | 21.05                | 22.4               | 0        |  |  |
| 5                  | QPSK       | 1       | 24        | 21.00               | 21.01               | 21.01                |                    |          |  |  |
| 5                  | QPSK       | 12      | 0         | 20.97               | 21.13               | 20.94                |                    |          |  |  |
| 5                  | QPSK       | 12      | 7         | 20.86               | 21.03               | 20.81                | 22.4               | 0        |  |  |
| 5                  | QPSK       | 12      | 14        | 20.89               | 21.07               | 20.81                |                    |          |  |  |
| 5                  | QPSK       | 25      | 0         | 20.94               | 20.99               | 20.96                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 0         | 20.97               | 21.14               | 21.02                | 22.4               | 0        |  |  |
| 5                  | 16QAM      | 1       | 12        | 20.90               | 21.02               | 20.95                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 24        | 21.04               | 21.05               | 20.91                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 0         | 20.95               | 21.15               | 20.82                | 22.4               | 0        |  |  |
| 5                  | 16QAM      | 12      | 7         | 20.89               | 21.11               | 20.88                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 14        | 21.01               | 21.12               | 20.93                |                    |          |  |  |
| 5                  | 16QAM      | 25      | 0         | 20.84               | 21.12               | 20.81                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 0         | 20.84               | 20.92               | 20.94                |                    |          |  |  |
| 5                  | 16QAM      | 1       | 12        | 21.02               | 21.05               | 20.91                | 22.4               | 0        |  |  |
| 5                  | 16QAM      | 1       | 24        | 20.91               | 21.05               | 20.97                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 0         | 20.94               | 20.95               | 20.92                |                    |          |  |  |
| 5                  | 16QAM      | 12      | 7         | 20.91               | 20.15               | 20.33                | 22                 | 0.4      |  |  |
| 5                  | 16QAM      | 12      | 14        | 20.99               | 20.24               | 20.30                |                    |          |  |  |
| 5                  | 16QAM      | 25      | 0         | 20.91               | 20.23               | 20.32                |                    |          |  |  |
| 5                  | 256QAM     | 1       | 0         | 18.20               | 18.26               | 18.20                |                    |          |  |  |
| 5                  | 256QAM     | 1       | 12        | 18.46               | 18.44               | 18.44                | 20                 | 2.4      |  |  |
| 5                  | 256QAM     | 1       | 24        | 18.33               | 18.62               | 18.54                |                    |          |  |  |
| 5                  | 256QAM     | 12      | 0         | 18.18               | 18.31               | 18.24                |                    |          |  |  |
| 5                  | 256QAM     | 12      | 7         | 18.34               | 18.34               | 18.34                | 20                 | 2.4      |  |  |
| 5                  | 256QAM     | 12      | 14        | 18.35               | 18.35               | 18.35                |                    |          |  |  |
| 5                  | 256QAM     | 25      | 0         | 18.35               | 18.36               | 18.39                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           |                     |                     |                      |                    |          |  |  |
| 817.5 811.5 850.5  |            |         |           |                     |                     |                      |                    |          |  |  |
| 3                  | QPSK       | 1       | 0         | 20.91               | 20.90               | 20.90                |                    |          |  |  |
| 3                  | QPSK       | 1       | 3         | 20.93               | 21.06               | 21.01                | 22.4               | 0        |  |  |
| 3                  | QPSK       | 1       | 14        | 21.02               | 20.99               | 20.92                |                    |          |  |  |
| 3                  | QPSK       | 3       | 0         | 20.92               | 21.13               | 20.93                |                    |          |  |  |
| 3                  | QPSK       | 3       | 4         | 20.86               | 21.07               | 20.91                | 22.4               | 0        |  |  |
| 3                  | QPSK       | 3       | 7         | 20.97               | 21.12               | 20.93                |                    |          |  |  |
| 3                  | QPSK       | 6       | 0         | 20.94               | 21.09               | 20.99                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 0         | 20.88               | 21.03               | 20.95                | 22.4               | 0        |  |  |
| 3                  | 16QAM      | 1       | 3         | 20.96               | 21.02               | 20.99                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 6         | 20.94               | 21.09               | 20.99                |                    |          |  |  |
| 3                  | 16QAM      | 3       | 0         | 20.87               | 21.15               | 20.91                | 22.4               | 0        |  |  |
| 3                  | 16QAM      | 3       | 4         | 20.96               | 21.10               | 20.91                |                    |          |  |  |
| 3                  | 16QAM      | 3       | 7         | 21.04               | 21.09               | 20.99                |                    |          |  |  |
| 3                  | 16QAM      | 6       | 0         | 20.83               | 21.02               | 20.84                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 0         | 20.83               | 21.02               | 20.84                |                    |          |  |  |
| 3                  | 16QAM      | 1       | 3         | 20.91               | 21.04               | 20.95                | 22.4               | 0        |  |  |
| 3                  | 16QAM      | 1       | 6         | 20.93               | 21.10               | 20.95                |                    |          |  |  |
| 3                  | 16QAM      | 3       | 0         | 20.90               | 20.92               | 20.92                |                    |          |  |  |
| 3                  | 16QAM      | 3       | 4         | 20.93               | 20.15               | 20.30                | 22                 | 0.4      |  |  |
| 3                  | 16QAM      | 3       | 7         | 20.93               | 20.25               | 20.28                |                    |          |  |  |
| 3                  | 16QAM      | 6       | 0         | 20.90               | 20.22               | 20.28                |                    |          |  |  |
| 3                  | 256QAM     | 1       | 0         | 18.27               | 18.27               | 18.21                |                    |          |  |  |
| 3                  | 256QAM     | 1       | 3         | 18.45               | 18.50               | 18.48                | 20                 | 2.4      |  |  |
| 3                  | 256QAM     | 1       | 6         | 18.37               | 18.67               | 18.57                |                    |          |  |  |
| 3                  | 256QAM     | 3       | 0         | 18.24               | 18.31               | 18.26                |                    |          |  |  |
| 3                  | 256QAM     | 3       | 4         | 18.27               | 18.32               | 18.30                | 20                 | 2.4      |  |  |
| 3                  | 256QAM     | 3       | 7         | 18.34               | 18.34               | 18.34                |                    |          |  |  |
| 3                  | 256QAM     | 6       | 0         | 18.31               | 18.37               | 18.32                |                    |          |  |  |
| Channel            |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)    |            |         |           |                     |                     |                      |                    |          |  |  |
| 817.5 811.5 850.5  |            |         |           |                     |                     |                      |                    |          |  |  |
| 1.4                | QPSK       | 1       | 0         | 20.86               | 20.95               | 20.90                |                    |          |  |  |
| 1.4                | QPSK       | 1       | 3         | 20.94               | 21.09               | 20.93                | 22.4               | 0        |  |  |
| 1.4                | QPSK       | 1       | 6         | 21.00               | 20.93               | 20.96                |                    |          |  |  |
| 1.4                | QPSK       | 3       | 0         | 20.91               | 21.09               | 20.99                |                    |          |  |  |
| 1.4                | QPSK       | 3       | 1         | 21.06               | 21.15               | 21.01                |                    |          |  |  |
| 1.4                | QPSK       | 3       | 3         | 20.93               | 20.91               | 20.94                |                    |          |  |  |
| 1.4                | QPSK       | 6       | 0         | 20.90               | 21.10               | 20.85                | 22.4               | 0        |  |  |
| 1.4                | 16QAM      | 1       | 0         | 20.83               | 21.02               | 20.89                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 3         | 20.99               | 20.99               | 20.91                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 6         | 20.87               | 21.09               | 20.88                | 22.4               | 0        |  |  |
| 1.4                | 16QAM      | 3       | 0         | 20.95               | 21.09               | 20.95                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 1         | 20.95               | 20.98               | 20.95                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 3         | 20.97               | 21.11               | 21.03                | 22.4               | 0        |  |  |
| 1.4                | 16QAM      | 6       | 0         | 20.89               | 21.09               | 20.84                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 0         | 20.93               | 21.12               | 20.84                | 22.4               | 0        |  |  |
| 1.4                | 16QAM      | 1       | 3         | 20.98               | 21.01               | 20.98                |                    |          |  |  |
| 1.4                | 16QAM      | 1       | 6         | 20.87               | 21.10               | 20.84                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 0         | 20.94               | 20.92               | 20.89                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 1         | 20.91               | 20.98               | 20.97                |                    |          |  |  |
| 1.4                | 16QAM      | 3       | 3         | 20.89               | 21.09               | 20.91                |                    |          |  |  |
| 1.4                | 16QAM      | 6       | 0         | 20.91               | 20.18               | 20.32                | 22                 | 0.4      |  |  |
| 1.4                | 256QAM     | 1       | 0         | 18.25               | 18.21               | 18.18                |                    |          |  |  |
| 1.4                | 256QAM     | 1       | 3         | 18.49               | 18.47               | 18.48                | 20                 | 2.4      |  |  |
| 1.4                | 256QAM     | 1       | 6         | 18.38               | 18.63               | 18.52                |                    |          |  |  |
| 1.4                | 256QAM     | 3       | 0         | 18.16               | 18.25               | 18.27                |                    |          |  |  |
| 1.4                | 256QAM     | 3       | 1         | 18.30               | 18.30               | 18.30                |                    |          |  |  |
| 1.4                | 256QAM     | 3       | 3         | 18.40               | 18.34               | 18.31                |                    |          |  |  |
| 1.4                | 256QAM     | 6       | 0         | 18.34               | 18.38               | 18.32                | 20                 | 2.4      |  |  |

| Band 30_Ant 9   |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|-------------------|----------|--|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Time-up Int. (dB) | MPE (dB) |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.43               | 21.43               | 21.43                | 22.1              | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 21.46               | 21.46               | 21.46                |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 21.48               | 21.48               | 21.48                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.46               | 21.46               | 21.46                | 22.1              |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.46               | 21.46               | 21.46                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 21.47               | 21.47               | 21.47                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.34               | 21.34               | 21.34                | 22.1              | 0        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.40               | 21.40               | 21.40                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.43               | 21.43               | 21.43                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 21.36               | 21.36               | 21.36                | 22.1              |          |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.41               | 21.41               | 21.41                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.37               | 21.37               | 21.37                |                   |          |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.34               | 21.34               | 21.34                | 22.1              |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.45               | 21.45               | 21.45                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.40               | 21.40               | 21.40                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.37               | 21.37               | 21.37                | 22.1              |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 21.38               | 21.38               | 21.38                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.46               | 21.46               | 21.46                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 19.65               | 19.65               | 19.65                | 20.5              | 1.6      |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 19.84               | 19.84               | 19.84                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 20.01               | 20.01               | 20.01                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 19.80               | 19.80               | 19.80                | 20.5              | 1.6      |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 19.73               | 19.73               | 19.73                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 19.84               | 19.84               | 19.84                |                   |          |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 19.70               | 19.70               | 19.70                | 20.5              | 1.6      |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 21.65               | 21.65               | 21.65                | 22.1              | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 21.38               | 21.38               | 21.38                |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 21.30               | 21.30               | 21.31                |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 36        | 21.30               | 21.31               | 21.37                | 22.1              |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.47               | 21.47               | 21.47                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.37               | 21.42               | 21.38                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 19        | 21.31               | 21.28               | 21.38                | 22.1              | 0        |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.25               | 21.23               | 21.29                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.38               | 21.39               | 21.27                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.38               | 21.31               | 21.42                | 22.1              |          |  |  |  |  |
| 5               | 16QAM      | 1       | 36        | 21.22               | 21.22               | 21.30                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.38               | 21.33               | 21.37                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.34               | 21.36               | 21.38                | 22.1              | 0        |  |  |  |  |
| 5               | 16QAM      | 12      | 19        | 21.19               | 21.21               | 21.21                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.44               | 21.34               | 21.40                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.36               | 21.28               | 21.39                | 22.1              |          |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.36               | 21.25               | 21.39                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.36               | 21.27               | 21.31                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 36        | 21.35               | 21.42               | 21.40                | 22.1              | 0        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.38               | 21.31               | 21.44                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.30               | 21.25               | 21.28                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.56               | 19.49               | 19.59                | 20.5              | 1.6      |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 19.70               | 19.61               | 19.85                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 19.84               | 19.88               | 19.88                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 19.78               | 19.77               | 19.77                | 20.5              | 1.6      |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 19.68               | 19.68               | 19.83                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.61               | 19.60               | 19.83                |                   |          |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 19.59               | 19.61               | 19.53                | 20.5              | 1.6      |  |  |  |  |
| 5               | 16QAM      | 25      | 12        |                     |                     |                      |                   |          |  |  |  |  |
| 5               | 16QAM      | 25      | 25        |                     |                     |                      |                   |          |  |  |  |  |



| Band 66_Ant 0                |            |        |           |                      |                      |                       |                    |          |  |  |  |  |
|------------------------------|------------|--------|-----------|----------------------|----------------------|-----------------------|--------------------|----------|--|--|--|--|
| BW (MHz)                     | Modulation | RB Sub | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq. | Tuneup Int. (secs) | MFR (dB) |  |  |  |  |
| Channel 132072 132072 132072 |            |        |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)              |            |        |           |                      |                      |                       |                    |          |  |  |  |  |
| 20                           | QPSK       | 1      | 0         | 15.67                | 15.63                | 15.75                 |                    |          |  |  |  |  |
| 20                           | QPSK       | 1      | 49        | 15.74                | 15.60                | 15.83                 | 16.9               | 0        |  |  |  |  |
| 20                           | QPSK       | 1      | 99        | 15.81                | 15.65                | 15.94                 |                    |          |  |  |  |  |
| 20                           | QPSK       | 50     | 0         | 15.75                | 15.66                | 15.76                 |                    |          |  |  |  |  |
| 20                           | QPSK       | 50     | 24        | 15.73                | 15.60                | 15.73                 | 16.9               | 0        |  |  |  |  |
| 20                           | QPSK       | 50     | 74        | 15.82                | 15.74                | 15.81                 |                    |          |  |  |  |  |
| 20                           | QPSK       | 100    | 0         | 15.62                | 15.64                | 15.69                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 1      | 0         | 15.64                | 15.74                | 15.64                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 1      | 49        | 15.70                | 15.62                | 15.77                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 1      | 99        | 15.65                | 15.76                | 15.66                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 15.68                | 15.73                | 15.68                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 15.67                | 15.61                | 15.72                 | 16.9               | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 74        | 15.73                | 15.74                | 15.68                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 15.73                | 15.60                | 15.72                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 15.69                | 15.65                | 15.69                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 1      | 49        | 15.68                | 15.73                | 15.61                 | 16.9               | 0        |  |  |  |  |
| 20                           | HQAM       | 1      | 99        | 15.68                | 15.77                | 15.68                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 50     | 0         | 15.73                | 15.69                | 15.69                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 50     | 24        | 15.67                | 15.72                | 15.70                 | 16.9               | 0        |  |  |  |  |
| 20                           | HQAM       | 50     | 74        | 15.73                | 15.75                | 15.64                 |                    |          |  |  |  |  |
| 20                           | HQAM       | 100    | 0         | 15.69                | 15.61                | 15.56                 |                    |          |  |  |  |  |
| Channel 132047 132022 132022 |            |        |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)              |            |        |           |                      |                      |                       |                    |          |  |  |  |  |
| 15                           | QPSK       | 1      | 0         | 15.77                | 15.74                | 15.77                 |                    |          |  |  |  |  |
| 15                           | QPSK       | 1      | 37        | 15.60                | 15.76                | 15.73                 | 16.9               | 0        |  |  |  |  |
| 15                           | QPSK       | 1      | 74        | 15.66                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | QPSK       | 36     | 0         | 15.62                | 15.76                | 15.76                 |                    |          |  |  |  |  |
| 15                           | QPSK       | 36     | 20        | 15.68                | 15.76                | 15.64                 |                    |          |  |  |  |  |
| 15                           | QPSK       | 36     | 70        | 15.70                | 15.73                | 15.63                 |                    |          |  |  |  |  |
| 15                           | QPSK       | 75     | 0         | 15.77                | 15.79                | 15.60                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 0         | 15.68                | 15.61                | 15.62                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.69                | 15.72                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.62                | 15.69                | 15.55                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.68                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.54                | 15.76                | 15.64                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.50                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.70                | 15.76                | 15.69                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 15.59                | 15.64                | 15.71                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 1      | 74        | 15.61                | 15.67                | 15.71                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 0         | 15.67                | 15.63                | 15.56                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 20        | 15.70                | 15.69                | 15.66                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 36     | 70        | 15.69                | 15.76                | 15.59                 | 16.9               | 0        |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.62                | 15.71                | 15.58                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 75     | 0         | 15.58                | 15.75                | 15.63                 |                    |          |  |  |  |  |
| 15                           | HQAM       | 1      | 37        | 1                    |                      |                       |                    |          |  |  |  |  |



| Band 38_Ant 9   |            |         |           |                     |                      |                      |               |          |  |  |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------|----------|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Tune-up [mHz] | MPR [dB] |  |  |  |
| Channel         |            |         |           |                     |                      |                      |               |          |  |  |  |
| Frequency [MHz] |            |         |           | 2580                | 2595                 | 2610                 |               |          |  |  |  |
| 20              | QPSK       | 1       | 0         | 17.00               | 16.91                | 16.73                | 18            | 0        |  |  |  |
| 20              | QPSK       | 1       | 49        | 17.02               | 17.07                | 16.98                |               |          |  |  |  |
| 20              | QPSK       | 1       | 99        | 16.87               | 16.92                | 16.74                |               |          |  |  |  |
| 20              | QPSK       | 50      | 0         | 16.90               | 17.05                | 16.80                | 18            | 0        |  |  |  |
| 20              | QPSK       | 50      | 24        | 16.96               | 17.02                | 16.76                |               |          |  |  |  |
| 20              | QPSK       | 50      | 50        | 16.84               | 17.00                | 16.76                |               |          |  |  |  |
| 20              | QPSK       | 100     | 0         | 16.94               | 17.00                | 16.87                | 18            | 0        |  |  |  |
| 20              | 16QAM      | 1       | 0         | 16.87               | 16.87                | 16.66                |               |          |  |  |  |
| 20              | 16QAM      | 1       | 49        | 16.98               | 16.99                | 16.88                |               |          |  |  |  |
| 20              | 16QAM      | 1       | 99        | 16.77               | 16.78                | 16.70                | 18            | 0        |  |  |  |
| 20              | 16QAM      | 50      | 0         | 16.98               | 16.97                | 16.84                |               |          |  |  |  |
| 20              | 16QAM      | 50      | 24        | 16.87               | 16.99                | 16.83                |               |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 16.71               | 16.86                | 16.75                | 18            | 0        |  |  |  |
| 20              | 16QAM      | 100     | 0         | 16.92               | 16.86                | 16.74                |               |          |  |  |  |
| 20              | 64QAM      | 1       | 0         | 16.87               | 16.81                | 16.61                |               |          |  |  |  |
| 20              | 64QAM      | 1       | 49        | 16.98               | 17.06                | 16.93                | 18            | 0        |  |  |  |
| 20              | 64QAM      | 1       | 99        | 16.72               | 16.82                | 16.73                |               |          |  |  |  |
| 20              | 64QAM      | 50      | 0         | 16.88               | 16.95                | 16.82                | 18            | 0        |  |  |  |
| 20              | 64QAM      | 50      | 24        | 16.83               | 16.97                | 16.72                |               |          |  |  |  |
| 20              | 64QAM      | 50      | 50        | 16.8                | 16.93                | 16.66                |               |          |  |  |  |
| 20              | 64QAM      | 100     | 0         | 16.91               | 16.95                | 16.72                | 18            | 0        |  |  |  |
| 20              | 256QAM     | 1       | 0         | 16.86               | 16.80                | 16.59                |               |          |  |  |  |
| 20              | 256QAM     | 1       | 49        | 16.95               | 16.97                | 17.04                |               |          |  |  |  |
| 20              | 256QAM     | 1       | 99        | 16.78               | 16.88                | 16.68                | 18            | 0        |  |  |  |
| 20              | 256QAM     | 50      | 0         | 16.88               | 16.96                | 16.77                |               |          |  |  |  |
| 20              | 256QAM     | 50      | 24        | 16.85               | 16.94                | 16.70                |               |          |  |  |  |
| 20              | 256QAM     | 50      | 50        | 16.80               | 16.92                | 16.66                | 18            | 0        |  |  |  |
| 20              | 256QAM     | 100     | 0         | 16.82               | 16.91                | 16.84                |               |          |  |  |  |
| Channel         |            |         |           |                     |                      |                      |               |          |  |  |  |
| Frequency [MHz] |            |         |           | 2572.5              | 2599                 | 2617.5               | Tune-up [mHz] | MPR [dB] |  |  |  |
| 15              | QPSK       | 1       | 0         | 16.92               | 16.84                | 16.67                | 18            | 0        |  |  |  |
| 15              | QPSK       | 1       | 37        | 16.88               | 16.97                | 16.86                |               |          |  |  |  |
| 15              | QPSK       | 1       | 74        | 16.85               | 16.81                | 16.64                |               |          |  |  |  |
| 15              | QPSK       | 36      | 0         | 16.84               | 16.99                | 16.87                | 18            | 0        |  |  |  |
| 15              | QPSK       | 36      | 20        | 16.80               | 16.88                | 16.70                |               |          |  |  |  |
| 15              | QPSK       | 36      | 39        | 16.78               | 16.87                | 16.75                |               |          |  |  |  |
| 15              | QPSK       | 75      | 0         | 16.80               | 16.91                | 16.82                | 18            | 0        |  |  |  |
| 15              | 16QAM      | 1       | 0         | 16.83               | 16.81                | 16.59                |               |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 16.85               | 16.88                | 16.74                |               |          |  |  |  |
| 15              | 16QAM      | 1       | 74        | 16.74               | 16.73                | 16.61                | 18            | 0        |  |  |  |
| 15              | 16QAM      | 36      | 0         | 16.83               | 16.90                | 16.73                |               |          |  |  |  |
| 15              | 16QAM      | 36      | 20        | 16.77               | 16.86                | 16.66                |               |          |  |  |  |
| 15              | 16QAM      | 36      | 39        | 16.68               | 16.83                | 16.73                | 18            | 0        |  |  |  |
| 15              | 16QAM      | 75      | 0         | 16.82               | 16.83                | 16.71                |               |          |  |  |  |
| 15              | 64QAM      | 1       | 0         | 16.77               | 16.69                | 16.56                |               |          |  |  |  |
| 15              | 64QAM      | 1       | 37        | 16.89               | 17.00                | 16.84                | 18            | 0        |  |  |  |
| 15              | 64QAM      | 1       | 74        | 16.69               | 16.76                | 16.65                |               |          |  |  |  |
| 15              | 64QAM      | 36      | 0         | 16.80               | 16.94                | 16.69                |               |          |  |  |  |
| 15              | 64QAM      | 36      | 20        | 16.81               | 16.82                | 16.63                | 18            | 0        |  |  |  |
| 15              | 64QAM      | 36      | 39        | 16.76               | 16.86                | 16.60                |               |          |  |  |  |
| 15              | 64QAM      | 75      | 0         | 16.87               | 16.94                | 16.83                |               |          |  |  |  |
| 15              | 256QAM     | 1       | 0         | 16.84               | 16.84                | 16.64                | 18            | 0        |  |  |  |
| 15              | 256QAM     | 1       | 37        | 16.75               | 16.97                | 16.79                |               |          |  |  |  |
| 15              | 256QAM     | 1       | 74        | 16.71               | 16.78                | 16.64                |               |          |  |  |  |
| 15              | 256QAM     | 36      | 0         | 16.76               | 16.92                | 16.69                | 18            | 0        |  |  |  |
| 15              | 256QAM     | 36      | 20        | 16.83               | 16.92                | 16.66                |               |          |  |  |  |
| 15              | 256QAM     | 36      | 39        | 16.65               | 16.87                | 16.59                |               |          |  |  |  |
| 15              | 256QAM     | 75      | 0         | 16.78               | 16.87                | 16.71                | 18            | 0        |  |  |  |
| 15              | 256QAM     | 75      | 0         | 16.78               | 16.87                | 16.71                |               |          |  |  |  |
| Channel         |            |         |           |                     |                      |                      |               |          |  |  |  |
| Frequency [MHz] |            |         |           | 37600               | 38000                | 38200                | Tune-up [mHz] | MPR [dB] |  |  |  |
| 10              | QPSK       | 1       | 0         | 16.99               | 16.80                | 16.72                | 18            | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        | 16.94               | 17.06                | 16.85                |               |          |  |  |  |
| 10              | QPSK       | 1       | 49        | 16.74               | 16.85                | 16.72                |               |          |  |  |  |
| 10              | QPSK       | 25      | 0         | 16.91               | 16.99                | 16.74                | 18            | 0        |  |  |  |
| 10              | QPSK       | 25      | 12        | 16.93               | 16.94                | 16.70                |               |          |  |  |  |
| 10              | QPSK       | 25      | 25        | 16.78               | 16.85                | 16.63                |               |          |  |  |  |
| 10              | QPSK       | 50      | 0         | 16.80               | 16.99                | 16.82                | 18            | 0        |  |  |  |
| 10              | 16QAM      | 1       | 0         | 16.83               | 16.79                | 16.61                |               |          |  |  |  |
| 10              | 16QAM      | 1       | 25        | 16.87               | 16.88                | 16.83                |               |          |  |  |  |
| 10              | 16QAM      | 1       | 49        | 16.73               | 16.76                | 16.59                | 18            | 0        |  |  |  |
| 10              | 16QAM      | 25      | 0         | 16.88               | 16.82                | 16.61                |               |          |  |  |  |
| 10              | 16QAM      | 25      | 12        | 16.73               | 16.96                | 16.51                |               |          |  |  |  |
| 10              | 16QAM      | 25      | 25        | 16.56               | 16.77                | 16.70                | 18            | 0        |  |  |  |
| 10              | 16QAM      | 50      | 0         | 16.87               | 16.75                | 16.68                |               |          |  |  |  |
| 10              | 64QAM      | 1       | 0         | 16.80               | 16.76                | 16.55                |               |          |  |  |  |
| 10              | 64QAM      | 1       | 25        | 16.95               | 17.03                | 16.92                | 18            | 0        |  |  |  |
| 10              | 64QAM      | 1       | 49        | 16.59               | 16.75                | 16.67                |               |          |  |  |  |
| 10              | 64QAM      | 25      | 0         | 16.81               | 16.92                | 16.79                |               |          |  |  |  |
| 10              | 64QAM      | 25      | 12        | 16.78               | 16.83                | 16.71                | 18            | 0        |  |  |  |
| 10              | 64QAM      | 25      | 25        | 16.74               | 16.87                | 16.63                |               |          |  |  |  |
| 10              | 64QAM      | 50      | 0         | 16.84               | 16.85                | 16.64                |               |          |  |  |  |
| 10              | 256QAM     | 1       | 0         | 16.74               | 16.88                | 16.46                | 18            | 0        |  |  |  |
| 10              | 256QAM     | 1       | 25        | 16.74               | 17.01                | 16.82                |               |          |  |  |  |
| 10              | 256QAM     | 1       | 49        | 16.69               | 16.77                | 16.53                |               |          |  |  |  |
| 10              | 256QAM     | 25      | 0         | 16.77               | 16.94                | 16.78                | 18            | 0        |  |  |  |
| 10              | 256QAM     | 25      | 12        | 16.75               | 16.84                | 16.62                |               |          |  |  |  |
| 10              | 256QAM     | 25      | 25        | 16.74               | 16.82                | 16.58                |               |          |  |  |  |
| 10              | 256QAM     | 50      | 0         | 16.80               | 16.84                | 16.75                | 18            | 0        |  |  |  |
| 10              | 256QAM     | 50      | 0         | 16.80               | 16.84                | 16.75                |               |          |  |  |  |
| Channel         |            |         |           |                     |                      |                      |               |          |  |  |  |
| Frequency [MHz] |            |         |           | 2572.5              | 2599                 | 2617.5               | Tune-up [mHz] | MPR [dB] |  |  |  |
| 5               | QPSK       | 1       | 0         | 16.85               | 16.87                | 16.62                | 18            | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 16.97               | 16.99                | 16.93                |               |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 16.86               | 16.82                | 16.63                |               |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 16.80               | 16.96                | 16.86                | 18            | 0        |  |  |  |
| 5               | QPSK       | 12      | 7         | 16.82               | 16.95                | 16.70                |               |          |  |  |  |
| 5               | QPSK       | 12      | 13        | 16.83               | 16.93                | 16.70                |               |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 16.80               | 16.89                | 16.77                | 18            | 0        |  |  |  |
| 5               | 16QAM      | 1       | 0         | 16.86               | 16.74                | 16.56                |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 16.88               | 16.90                | 16.78                |               |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 16.86               | 16.77                | 16.62                | 18            | 0        |  |  |  |
| 5               | 16QAM      | 12      | 0         | 16.82               | 16.75                | 16.69                |               |          |  |  |  |

| Band 41 (HPUE)_Ant 9 |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|----------------------|------------|---------|-----------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Fec Fc Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq |
| Channel              |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| Frequency (MHz)      |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 20                   | QPSK       | 1       | 0         | 18.49                      | 18.61               | 18.60               | 18.62               | 18.64               | 18.66               | 18.68               | 18.70               | 18.72               | 18.74               | 18.76               |
| 20                   | QPSK       | 1       | 49        | 18.61                      | 18.73               | 18.72               | 18.74               | 18.76               | 18.78               | 18.80               | 18.82               | 18.84               | 18.86               | 18.88               |
| 20                   | QPSK       | 1       | 99        | 18.73                      | 18.85               | 18.84               | 18.86               | 18.88               | 18.90               | 18.92               | 18.94               | 18.96               | 18.98               | 19.00               |
| 20                   | QPSK       | 50      | 0         | 18.42                      | 18.50               | 18.50               | 18.52               | 18.54               | 18.56               | 18.58               | 18.60               | 18.62               | 18.64               | 18.66               |
| 20                   | QPSK       | 50      | 24        | 18.52                      | 18.60               | 18.60               | 18.62               | 18.64               | 18.66               | 18.68               | 18.70               | 18.72               | 18.74               | 18.76               |
| 20                   | QPSK       | 50      | 50        | 18.38                      | 18.50               | 18.50               | 18.52               | 18.54               | 18.56               | 18.58               | 18.60               | 18.62               | 18.64               | 18.66               |
| 20                   | QPSK       | 100     | 0         | 18.56                      | 18.68               | 18.68               | 18.70               | 18.72               | 18.74               | 18.76               | 18.78               | 18.80               | 18.82               | 18.84               |
| 20                   | 16QAM      | 1       | 0         | 18.54                      | 18.55               | 18.70               | 18.52               | 18.54               | 18.55               | 18.70               | 18.52               | 18.54               | 18.55               | 18.70               |
| 20                   | 16QAM      | 1       | 49        | 18.51                      | 18.50               | 18.71               | 18.75               | 18.72               | 18.76               | 18.74               | 18.72               | 18.76               | 18.74               | 18.72               |
| 20                   | 16QAM      | 1       | 99        | 18.63                      | 18.61               | 18.72               | 18.62               | 18.64               | 18.62               | 18.73               | 18.64               | 18.62               | 18.73               | 18.64               |
| 20                   | 16QAM      | 50      | 0         | 18.43                      | 18.66               | 18.68               | 18.68               | 18.83               | 18.81               | 18.91               | 18.89               | 18.91               | 18.89               | 18.91               |
| 20                   | 16QAM      | 50      | 24        | 18.51                      | 18.68               | 18.64               | 18.83               | 18.86               | 18.86               | 18.92               | 18.92               | 18.98               | 18.98               | 19.00               |
| 20                   | 16QAM      | 50      | 50        | 18.52                      | 18.62               | 18.69               | 18.85               | 18.95               | 18.95               | 19.00               | 19.00               | 19.05               | 19.05               | 19.10               |
| 20                   | 16QAM      | 100     | 0         | 18.39                      | 18.68               | 18.68               | 18.83               | 18.82               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               |
| 20                   | 16QAM      | 1       | 0         | 18.39                      | 18.67               | 18.73               | 18.80               | 18.87               | 18.87               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               |
| 20                   | 16QAM      | 1       | 49        | 18.51                      | 18.50               | 18.71               | 18.75               | 18.72               | 18.76               | 18.74               | 18.72               | 18.76               | 18.74               | 18.72               |
| 20                   | 16QAM      | 1       | 99        | 18.59                      | 18.60               | 18.71               | 18.86               | 18.81               | 18.99               | 18.99               | 18.99               | 18.99               | 18.99               | 19.00               |
| 20                   | 16QAM      | 50      | 0         | 18.47                      | 18.63               | 18.62               | 18.85               | 18.81               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 19.00               |
| 20                   | 16QAM      | 50      | 24        | 18.52                      | 18.68               | 18.65               | 18.81               | 18.81               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               |
| 20                   | 16QAM      | 50      | 50        | 18.51                      | 18.58               | 18.70               | 18.70               | 18.83               | 18.82               | 18.86               | 18.86               | 18.86               | 18.86               | 18.86               |
| 20                   | 16QAM      | 100     | 0         | 18.47                      | 18.68               | 18.56               | 18.85               | 18.83               | 18.92               | 18.93               | 18.93               | 18.93               | 18.93               | 18.93               |
| 20                   | 256QAM     | 1       | 0         | 18.41                      | 18.71               | 18.68               | 18.77               | 18.84               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               |
| 20                   | 256QAM     | 1       | 49        | 18.41                      | 18.61               | 18.66               | 18.82               | 18.81               | 18.86               | 18.86               | 18.86               | 18.86               | 18.86               | 18.86               |
| 20                   | 256QAM     | 1       | 99        | 18.42                      | 18.51               | 18.71               | 18.74               | 18.81               | 18.79               | 18.79               | 18.79               | 18.79               | 18.79               | 18.79               |
| 20                   | 256QAM     | 50      | 0         | 18.42                      | 18.63               | 18.58               | 18.87               | 18.88               | 18.99               | 18.99               | 18.99               | 18.99               | 18.99               | 19.00               |
| 20                   | 256QAM     | 50      | 24        | 18.42                      | 18.66               | 18.73               | 18.91               | 18.94               | 18.96               | 18.96               | 18.96               | 18.96               | 18.96               | 18.96               |
| 20                   | 256QAM     | 50      | 50        | 18.48                      | 18.61               | 18.65               | 18.85               | 18.84               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               |
| 20                   | 256QAM     | 100     | 0         | 18.42                      | 18.64               | 18.62               | 18.73               | 18.82               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               |
| Channel              |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| Frequency (MHz)      |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 30                   | QPSK       | 1       | 0         | 18.49                      | 18.61               | 18.60               | 18.69               | 18.69               | 18.72               | 18.74               | 18.76               | 18.78               | 18.80               | 18.82               |
| 30                   | QPSK       | 1       | 37        | 18.53                      | 18.62               | 18.57               | 18.87               | 18.82               | 18.92               | 19.00               | 19.00               | 19.00               | 19.00               | 19.00               |
| 30                   | QPSK       | 1       | 74        | 18.43                      | 18.50               | 18.62               | 18.80               | 18.30               | 18.73               | 18.73               | 18.73               | 18.73               | 18.73               | 18.73               |
| 30                   | QPSK       | 36      | 0         | 18.38                      | 18.61               | 18.56               | 18.90               | 18.30               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               |
| 30                   | QPSK       | 36      | 20        | 18.38                      | 18.45               | 18.51               | 18.84               | 18.34               | 18.70               | 18.70               | 18.70               | 18.70               | 18.70               | 18.70               |
| 30                   | QPSK       | 36      | 36        | 18.31                      | 18.48               | 18.42               | 18.81               | 18.17               | 18.80               | 18.80               | 18.80               | 18.80               | 18.80               | 18.80               |
| 30                   | QPSK       | 75      | 0         | 18.44                      | 18.53               | 18.63               | 18.79               | 18.27               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               |
| 30                   | QPSK       | 75      | 49        | 18.43                      | 18.43               | 18.65               | 18.82               | 18.41               | 18.77               | 18.77               | 18.77               | 18.77               | 18.77               | 18.77               |
| 30                   | 16QAM      | 1       | 37        | 18.30                      | 18.39               | 18.52               | 18.76               | 18.30               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               |
| 30                   | 16QAM      | 1       | 74        | 18.52                      | 18.56               | 18.64               | 18.79               | 18.41               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               |
| 30                   | 16QAM      | 36      | 0         | 18.29                      | 18.58               | 18.55               | 18.74               | 18.45               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               |
| 30                   | 16QAM      | 36      | 20        | 18.45                      | 18.56               | 18.56               | 18.68               | 18.41               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               |
| 30                   | 16QAM      | 36      | 36        | 18.40                      | 18.59               | 18.52               | 18.62               | 18.23               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               |
| 30                   | 16QAM      | 75      | 0         | 18.24                      | 18.62               | 18.66               | 18.70               | 18.33               | 18.99               | 18.99               | 18.99               | 18.99               | 18.99               | 18.99               |
| 30                   | 16QAM      | 1       | 59        | 18.41                      | 18.59               | 18.61               | 18.78               | 18.41               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               |
| 30                   | 16QAM      | 1       | 37        | 18.47                      | 18.59               | 18.62               | 18.63               | 18.18               | 18.76               | 18.76               | 18.76               | 18.76               | 18.76               | 18.76               |
| 30                   | 16QAM      | 1       | 74        | 18.50                      | 18.56               | 18.65               | 18.79               | 18.30               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               |
| 30                   | 16QAM      | 36      | 0         | 18.32                      | 18.57               | 18.67               | 18.74               | 18.37               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               |
| 30                   | 16QAM      | 36      | 20        | 18.48                      | 18.50               | 18.62               | 18.77               | 18.37               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               |
| 30                   | 16QAM      | 36      | 36        | 18.54                      | 18.51               | 18.60               | 18.77               | 18.34               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               |
| 30                   | 16QAM      | 75      | 0         | 18.33                      | 18.64               | 18.42               | 18.79               | 18.25               | 18.86               | 18.86               | 18.86               | 18.86               | 18.86               | 18.86               |
| 30                   | 256QAM     | 1       | 59        | 18.41                      | 18.59               | 18.61               | 18.78               | 18.41               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               |
| 30                   | 256QAM     | 1       | 37        | 18.30                      | 18.48               | 18.61               | 18.70               | 18.16               | 18.74               | 18.74               | 18.74               | 18.74               | 18.74               | 18.74               |
| 30                   | 256QAM     | 1       | 74        | 18.30                      | 18.41               | 18.69               | 18.72               | 18.32               | 18.75               | 18.75               | 18.75               | 18.75               | 18.75               | 18.75               |
| 30                   | 256QAM     | 36      | 0         | 18.27                      | 18.53               | 18.48               | 18.78               | 18.25               | 18.93               | 18.93               | 18.93               | 18.93               | 18.93               | 18.93               |
| 30                   | 256QAM     | 36      | 20        | 18.38                      | 18.53               | 18.64               | 18.77               | 18.38               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               |
| 30                   | 256QAM     | 36      | 36        | 18.33                      | 18.53               | 18.56               | 18.76               | 18.25               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               |
| 30                   | 256QAM     | 75      | 0         | 18.33                      | 18.56               | 18.48               | 18.71               | 18.34               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               |
| Channel              |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| Frequency (MHz)      |            |         |           |                            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 20                   | QPSK       | 1       | 0         | 18.42                      | 18.52               | 18.49               | 18.72               | 18.26               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               |
| 20                   | QPSK       | 1       | 25        | 18.48                      | 18.61               | 18.62               | 18.86               | 18.49               | 19.01               | 19.01               | 19.01               | 19.01               | 19.01               | 19.01               |
| 20                   | QPSK       | 1       | 49        | 18.47                      | 18.43               | 18.66               | 18.81               | 18.42               | 18.68               | 18.68               | 18.68               | 18.68               | 18.68               | 18.68               |
| 20                   | QPSK       | 25      | 0         | 18.40                      | 18.53               | 18.63               | 18.80               | 18.30               | 18.87               | 18.87               | 18.87               | 18.87               | 18.87               | 18.87               |
| 20                   | QPSK       | 25      | 12        | 18.32                      | 18.51               | 18.53               | 18.77               | 18.17               | 18.84               | 18.84               | 18.84               | 18.84               | 18.84               | 18.84               |
| 20                   | QPSK       | 25      | 25        | 18.36                      | 18.51               | 18.49               | 18.80               | 18.20               | 18.75               | 18.75               | 18.75               | 18.75               | 18.75               | 18.75               |
| 20                   | QPSK       | 50      | 0         | 18.45                      | 18.50               | 18.54               | 18.76               | 18.20               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               | 18.88               |
| 20                   | QPSK       | 50      | 24        | 18.47                      | 18.50               | 18.56               | 18.68               | 18.41               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               |
| 20                   | 16QAM      | 1       | 25        | 18.39                      | 18.51               | 18.56               | 18.81               | 18.30               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               |
| 20                   | 16QAM      | 1       | 49        | 18.61                      | 18.58               | 18.62               | 18.75               | 18.25               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               |
| 20                   | 16QAM      | 25      | 0         | 18.40                      | 18.52               | 18.62               | 18.73               | 18.30               | 18.84               | 18.84               | 18.84               | 18.84               | 18.84               | 18.84               |
| 20                   | 16QAM      | 25      | 12        | 18.45                      | 18.60               | 18.61               | 18.70               | 18.40               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               |
| 20                   | 16QAM      | 25      | 25        | 18.51                      | 18.56               | 18.56               | 18.74               | 18.51               | 18.71               | 18.71               | 18.71               | 18.71               | 18.71               | 18.71               |
| 20                   | 16QAM      | 50      | 0         | 18.38                      | 18.58               | 18.65               | 18.78               | 18.31               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               |
| 20                   | 16QAM      | 50      | 24        | 18.27                      | 18.56               | 18.61               | 18.74               | 18.31               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               | 18.95               |
| 20                   | 16QAM      | 1       | 25        | 18.39                      | 18.46               | 18.60               | 18.69               | 18.17               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               | 18.83               |
| 20                   | 16QAM      | 1       | 49        | 18.44                      | 18.49               | 18.61               | 18.83               | 18.31               | 18.97               | 18.97               | 18.97               | 18.97               | 18.97               | 18.97               |
| 20                   | 16QAM      | 25      | 0         | 18.46                      | 18.60               | 18.58               | 18.75               | 18.30               | 18.97               | 18.97               | 18.97               | 18.97               | 18.97               | 18.97               |
| 20                   | 16QAM      | 25      | 12        | 18.40                      | 18.49               | 18.61               | 18.70               | 18.22               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               | 18.89               |
| 20                   | 16QAM      | 25      | 25        | 18.60                      | 18.56               | 18.67               | 18.72               | 18.36               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               | 18.94               |
| 20                   | 16QAM      | 50      | 0         | 18.43                      | 18.62               | 18.51               | 18.84               | 18.18               | 18.92               | 18.92               | 18.92               | 18.92               | 18.92               | 18.92               |
| 20                   | 256QAM     | 1       | 0         | 18.32                      | 18.61               | 18.64               | 18.64               | 18.33               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               | 18.78               |
| 20                   | 256QAM     | 1       | 25        | 18.3                       | 18.59               | 18.60               | 18.79               | 18.30               | 18.92               | 18.92               | 18.92               | 18.92               | 18.92               | 18.92               |
| 20                   | 256QAM     | 1       | 49        | 18.41                      | 18.59               | 18.61               | 18.78               | 18.41               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               |
| 20                   | 256QAM     | 50      | 0         | 18.32                      | 18.62               | 18.50               | 18.76               | 18.30               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               | 18.98               |
| 20                   | 256QAM     | 50      | 24        | 18.43                      | 18.65               | 18.66               | 18.85               | 18.84               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               | 18.85               |
| 20                   | 256QAM     | 50      | 50        | 18.48                      | 18.51               | 18.56               | 18.75               | 18.20               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               | 18.81               |
| 20                   | 256QAM     | 100     | 0         | 18.42                      | 18.64               | 18.62               | 18.73               | 18.82               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               | 18.91               |

| Band 41_Ant 2   |            |         |           |                             |                      |                           |                       |                       |                       |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------------|----------------------|---------------------------|-----------------------|-----------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Fat IC Power Low Ch./F/Freq | Power Low Ch./F/Freq | Power Low Vide Ch./F/Freq | Power High Ch./F/Freq | Power High Ch./F/Freq | Power High Ch./F/Freq | Turn-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                             |                      |                           |                       |                       |                       |                     |          |  |
|                 | Channel    |         |           | 39750                       | 39750                | 40185                     | 40620                 | 41055                 | 41490                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2510                        | 2506                 | 2548.5                    | 2593                  | 2636.5                | 2680                  |                     |          |  |
| 20              | QPSK       | 1       | 0         | 22.20                       | 22.30                | 22.62                     | 22.71                 | 22.34                 | 22.55                 | 23.5                | 0        |  |
| 20              | QPSK       | 1       | 49        | 22.30                       | 22.43                | 22.71                     | 22.83                 | 22.44                 | 22.68                 |                     |          |  |
| 20              | QPSK       | 1       | 99        | 22.31                       | 22.37                | 22.57                     | 22.68                 | 22.37                 | 22.26                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.31                       | 22.37                | 22.68                     | 22.79                 | 22.40                 | 22.67                 |                     |          |  |
| 20              | QPSK       | 50      | 24        | 22.22                       | 22.29                | 22.60                     | 22.72                 | 22.39                 | 22.61                 | 23.5                | 0        |  |
| 20              | QPSK       | 50      | 50        | 22.30                       | 22.35                | 22.62                     | 22.76                 | 22.31                 | 22.63                 |                     |          |  |
| 20              | QPSK       | 100     | 0         | 22.21                       | 22.41                | 22.67                     | 22.72                 | 22.31                 | 22.53                 |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 22.27                       | 22.34                | 22.62                     | 22.62                 | 22.43                 | 22.66                 |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 22.31                       | 22.30                | 22.66                     | 22.76                 | 22.41                 | 22.59                 | 23.5                | 0        |  |
| 20              | 16QAM      | 1       | 99        | 22.24                       | 22.24                | 22.59                     | 22.81                 | 22.32                 | 22.62                 |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 22.11                       | 22.07                | 22.31                     | 22.47                 | 22.17                 | 22.25                 |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 22.27                       | 22.21                | 22.46                     | 22.62                 | 22.19                 | 22.42                 |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 22.24                       | 22.23                | 22.46                     | 22.62                 | 22.07                 | 22.48                 | 23                  | 0.5      |  |
| 20              | 16QAM      | 100     | 0         | 22.23                       | 22.23                | 22.43                     | 22.61                 | 22.12                 | 22.36                 |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 21.87                       | 21.88                | 22.12                     | 22.31                 | 22.02                 | 22.15                 |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 22.08                       | 22.01                | 22.32                     | 22.45                 | 21.93                 | 22.21                 |                     |          |  |
| 20              | 64QAM      | 1       | 99        | 22.07                       | 22.14                | 22.29                     | 22.43                 | 21.98                 | 22.48                 | 23                  | 0.5      |  |
| 20              | 64QAM      | 50      | 0         | 21.13                       | 21.09                | 21.33                     | 21.46                 | 21.11                 | 21.25                 |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 21.34                       | 21.24                | 21.45                     | 21.53                 | 21.14                 | 21.41                 |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 21.19                       | 21.19                | 21.48                     | 21.54                 | 21.07                 | 21.44                 |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 21.20                       | 21.20                | 21.43                     | 21.53                 | 21.14                 | 21.42                 | 20                  | 3.5      |  |
| 20              | 256QAM     | 1       | 0         | 18.76                       | 18.74                | 18.90                     | 19.21                 | 18.82                 | 18.95                 |                     |          |  |
| 20              | 256QAM     | 1       | 49        | 18.79                       | 18.68                | 18.84                     | 19.15                 | 18.78                 | 18.80                 |                     |          |  |
| 20              | 256QAM     | 1       | 99        | 18.71                       | 18.79                | 18.75                     | 19.01                 | 18.62                 | 18.85                 |                     |          |  |
| 20              | 256QAM     | 50      | 0         | 18.67                       | 18.66                | 18.64                     | 18.69                 | 18.65                 | 18.87                 | 20                  | 3.5      |  |
| 20              | 256QAM     | 50      | 24        | 18.63                       | 18.64                | 18.61                     | 19.09                 | 18.77                 | 18.76                 |                     |          |  |
| 20              | 256QAM     | 50      | 50        | 18.68                       | 18.57                | 18.54                     | 19.15                 | 18.80                 | 18.85                 |                     |          |  |
| 20              | 256QAM     | 100     | 0         | 18.78                       | 18.68                | 18.60                     | 19.06                 | 18.62                 | 18.62                 |                     |          |  |
| Channel         |            |         |           |                             |                      |                           |                       |                       |                       |                     |          |  |
|                 | Channel    |         |           | 39765                       | 39725                | 40173                     | 40620                 | 41068                 | 41515                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 25075                       | 25033                | 25413                     | 2593                  | 26377                 | 26823                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.11                       | 22.21                | 22.41                     | 22.61                 | 22.19                 | 22.51                 | 23.5                | 0        |  |
| 15              | QPSK       | 1       | 37        | 22.20                       | 22.32                | 22.60                     | 22.70                 | 22.40                 | 22.61                 |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.29                       | 22.31                | 22.47                     | 22.61                 | 22.22                 | 22.57                 |                     |          |  |
| 15              | QPSK       | 36      | 0         | 22.27                       | 22.30                | 22.60                     | 22.69                 | 22.39                 | 22.63                 |                     |          |  |
| 15              | QPSK       | 36      | 20        | 22.11                       | 22.14                | 22.30                     | 22.61                 | 22.22                 | 22.53                 | 23.5                | 0        |  |
| 15              | QPSK       | 36      | 36        | 22.21                       | 22.21                | 22.20                     | 22.69                 | 22.16                 | 22.58                 |                     |          |  |
| 15              | QPSK       | 75      | 0         | 22.08                       | 22.26                | 22.61                     | 22.70                 | 22.20                 | 22.44                 |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 22.09                       | 22.10                | 22.36                     | 22.60                 | 22.13                 | 22.31                 |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 22.18                       | 22.29                | 22.65                     | 22.74                 | 22.26                 | 22.57                 | 23.5                | 0        |  |
| 15              | 16QAM      | 1       | 74        | 22.18                       | 22.40                | 22.59                     | 22.68                 | 22.23                 | 22.59                 |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 21.95                       | 21.95                | 22.13                     | 22.29                 | 22.01                 | 22.18                 |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 22.10                       | 22.16                | 22.37                     | 22.63                 | 22.13                 | 22.31                 |                     |          |  |
| 15              | 16QAM      | 36      | 36        | 22.15                       | 22.05                | 22.42                     | 22.52                 | 22.00                 | 22.37                 | 23                  | 0.5      |  |
| 15              | 16QAM      | 75      | 0         | 22.19                       | 22.13                | 22.26                     | 22.34                 | 21.97                 | 22.24                 |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 21.96                       | 21.96                | 22.17                     | 22.34                 | 21.97                 | 22.15                 |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 22.06                       | 21.95                | 22.06                     | 22.27                 | 21.83                 | 22.17                 |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 21.91                       | 22.11                | 22.19                     | 22.33                 | 21.79                 | 22.32                 | 22                  | 1.5      |  |
| 15              | 64QAM      | 36      | 0         | 21.63                       | 20.98                | 21.15                     | 21.35                 | 20.98                 | 21.15                 |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 21.68                       | 22.14                | 21.37                     | 21.46                 | 21.13                 | 21.28                 |                     |          |  |
| 15              | 64QAM      | 36      | 36        | 20.99                       | 21.15                | 21.37                     | 21.45                 | 20.99                 | 21.34                 |                     |          |  |
| 15              | 256QAM     | 1       | 0         | 21.17                       | 21.19                | 21.33                     | 21.35                 | 21.03                 | 21.38                 | 20                  | 3.5      |  |
| 15              | 256QAM     | 1       | 49        | 18.63                       | 18.59                | 18.69                     | 19.07                 | 18.77                 | 18.84                 |                     |          |  |
| 15              | 256QAM     | 1       | 99        | 18.61                       | 18.41                | 18.44                     | 18.97                 | 18.66                 | 18.69                 |                     |          |  |
| 15              | 256QAM     | 1       | 74        | 18.63                       | 18.56                | 18.53                     | 18.66                 | 18.58                 | 18.63                 |                     |          |  |
| 15              | 256QAM     | 36      | 0         | 18.65                       | 18.48                | 18.44                     | 19.04                 | 18.54                 | 18.72                 | 20                  | 3.5      |  |
| 15              | 256QAM     | 36      | 20        | 18.58                       | 18.62                | 18.58                     | 18.62                 | 18.64                 | 18.69                 |                     |          |  |
| 15              | 256QAM     | 36      | 36        | 18.55                       | 18.55                | 18.53                     | 19.01                 | 18.70                 | 18.66                 |                     |          |  |
| 15              | 256QAM     | 75      | 0         | 18.58                       | 18.53                | 18.58                     | 18.63                 | 18.45                 | 18.74                 |                     |          |  |
| Channel         |            |         |           |                             |                      |                           |                       |                       |                       |                     |          |  |
|                 | Channel    |         |           | 39740                       | 39700                | 40160                     | 40620                 | 41080                 | 41540                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 25065                       | 25025                | 25405                     | 25925                 | 26375                 | 26835                 |                     |          |  |
| 10              | QPSK       | 1       | 0         | 22.19                       | 22.31                | 22.60                     | 22.58                 | 22.22                 | 22.43                 | 23.5                | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.23                       | 22.29                | 22.57                     | 22.77                 | 22.39                 | 22.59                 |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.28                       | 22.34                | 22.49                     | 22.67                 | 22.31                 | 22.62                 |                     |          |  |
| 10              | QPSK       | 50      | 0         | 22.28                       | 22.32                | 22.57                     | 22.74                 | 22.32                 | 22.63                 |                     |          |  |
| 10              | QPSK       | 50      | 12        | 22.11                       | 22.26                | 22.47                     | 22.57                 | 22.31                 | 22.49                 | 23.5                | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.20                       | 22.29                | 22.54                     | 22.63                 | 22.24                 | 22.49                 |                     |          |  |
| 10              | QPSK       | 50      | 0         | 22.11                       | 22.31                | 22.56                     | 22.66                 | 22.24                 | 22.45                 |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 22.23                       | 22.31                | 22.61                     | 22.74                 | 22.24                 | 22.54                 |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 22.26                       | 22.36                | 22.44                     | 22.63                 | 22.29                 | 22.59                 | 23.5                | 0        |  |
| 10              | 16QAM      | 1       | 49        | 22.17                       | 22.32                | 22.53                     | 22.71                 | 22.19                 | 22.60                 |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 21.96                       | 21.97                | 22.16                     | 22.33                 | 21.97                 | 22.15                 |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 22.13                       | 22.07                | 22.27                     | 22.40                 | 22.03                 | 22.36                 |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 22.07                       | 22.13                | 22.43                     | 22.51                 | 21.93                 | 22.25                 | 23                  | 0.5      |  |
| 10              | 16QAM      | 50      | 0         | 22.15                       | 22.34                | 22.26                     | 22.31                 | 21.94                 | 22.19                 |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 21.86                       | 21.83                | 21.96                     | 22.13                 | 21.82                 | 22.12                 |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 22.07                       | 21.99                | 22.19                     | 22.30                 | 21.84                 | 22.05                 |                     |          |  |
| 10              | 64QAM      | 1       | 49        | 21.99                       | 22.00                | 22.24                     | 22.39                 | 21.97                 | 22.23                 | 23                  | 0.5      |  |
| 10              | 64QAM      | 25      | 0         | 20.97                       | 20.91                | 21.22                     | 21.39                 | 20.91                 | 21.19                 |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 21.21                       | 21.10                | 21.41                     | 21.50                 | 20.98                 | 21.24                 |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 21.02                       | 21.13                | 21.38                     | 21.44                 | 21.06                 | 21.41                 |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 21.04                       | 21.04                | 21.41                     | 21.52                 | 20.96                 | 21.33                 | 20                  | 3.5      |  |
| 10              | 256QAM     | 1       | 0         | 18.69                       | 18.55                | 18.62                     | 19.15                 | 18.78                 | 18.62                 |                     |          |  |
| 10              | 256QAM     | 1       | 25        | 18.52                       | 18.55                | 18.60                     | 19.03                 | 18.69                 | 18.79                 |                     |          |  |
| 10              | 256QAM     | 1       | 49        | 18.54                       | 18.46                | 18.44                     | 18.81                 | 18.59                 | 18.84                 |                     |          |  |
| 10              | 256QAM     | 25      | 0         | 18.62                       | 18.50                | 18.60                     | 18.94                 | 18.63                 | 18.82                 | 20                  | 3.5      |  |
| 10              | 256QAM     | 25      | 12        | 18.52                       | 18.47                | 18.39                     | 18.96                 | 18.69                 | 18.79                 |                     |          |  |
| 10              | 256QAM     | 25      | 25        | 18.63                       | 18.36                | 18.39                     | 19.05                 | 18.68                 | 18.77                 |                     |          |  |
| 10              | 256QAM     | 50      | 0         | 18.67                       | 18.59                | 18.41                     | 18.64                 | 18.60                 | 18.70                 |                     |          |  |
| Channel         |            |         |           |                             |                      |                           |                       |                       |                       |                     |          |  |
|                 | Channel    |         |           | 39715                       | 39675                | 40145                     | 40620                 | 41093                 | 41555                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 25025                       | 2498.5               | 2545.5                    | 2593                  | 26403                 | 26875                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.13                       | 22.23                | 22.60                     | 22.70                 | 22.25                 | 22.41                 | 23.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.33                       | 22.37                | 22.62                     | 22.68                 | 22.39                 | 22.62                 |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.20                       | 22.24                | 22.56                     | 22.63                 | 22.23                 | 22.50                 |                     |          |  |
| 5               | QPSK       | 12      | 0         | 22.30                       | 22.27                | 22.63                     | 22.70                 | 22.36                 | 22.58                 |                     |          |  |
| 5               | QPSK       | 12      | 7         | 22.17                       | 22.20                | 22.53                     | 22.71                 | 22.30                 | 22.50                 | 23.5                | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.21                       | 22.24                | 22.56                     | 22.65                 | 22.29                 | 22.58                 |                     |          |  |
| 5               | QPSK       | 25      | 0         | 22.18                       | 22.30                | 22.57                     | 22.68                 | 22.17                 | 22.44                 |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 22.12                       | 22.36                | 22.51                     | 22.67                 | 22.38                 | 22.63                 |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 22.17                       | 22.19                | 22.55                     | 22.75                 | 22.30                 | 22.57                 | 23.5                | 0        |  |
| 5               | 16QAM      | 1       | 24        | 22.23                       | 22.29                | 22.57                     | 22.67                 | 22.27                 | 22.52                 |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 22.02                       | 21.87                | 22.11                     | 22.40                 | 21.99                 | 22.13                 |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 22.13                       | 22.09                | 22.44                     | 22.50                 | 22.13                 | 22.32                 |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 22.16                       | 22.05                | 22.34                     | 22.44                 | 21.88                 | 22.40                 | 23                  | 0.5      |  |
| 5               | 16QAM      | 25      | 0         | 22.11                       | 22.07                | 22.36                     | 22.37                 | 22.03                 | 22.19                 |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 21.84                       | 21.95                | 22.09                     | 22.27                 | 21.84                 | 22.11                 |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 21.92                       | 21.90                | 22.10                     | 22.28                 | 21.85                 | 22.18                 |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 21.99                       | 21.94                | 22.28                     | 22.31                 | 21.91                 | 22.39                 | 22                  | 1.5      |  |
| 5               | 64QAM      | 12      | 0         | 21.60                       | 20.99                | 21.16                     | 21.35                 | 20.93                 | 21.24                 |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 21.09                       | 21.13                | 21.37                     | 21.34                 | 20.99                 | 21.38                 |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 21.01                       | 21.05                | 21.29                     | 21.24                 | 20.95                 | 21.37                 |                     |          |  |
| 5               | 256QAM     | 1       | 0         | 18.15                       | 21.07                | 21.24                     | 21.36                 | 21.07                 | 21.33                 | 20                  | 3.5      |  |
| 5               | 256QAM     | 1       | 0         | 18.63                       | 18.72                | 18.64                     | 19.18                 | 18.71                 | 18.77                 |                     |          |  |
| 5               | 256QAM     | 1       | 12        | 18.55                       | 18.47                | 18.48                     | 19.03                 | 18.75                 | 18.87                 |                     |          |  |
| 5               | 256QAM     | 1       | 24        | 18.68                       | 18.52                | 18.38                     | 18.95                 | 18.50                 | 18.90                 |                     |          |  |
| 5               | 256QAM     | 12      | 0         | 18.53                       | 18.49                | 18.49                     | 19.08                 | 18.60                 | 18.69                 | 20                  | 3.4      |  |

| Band 41 (HPUE)_Ant 6 |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
|----------------------|------------|---------|-----------|-----------------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | For FDD Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Turn-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| Frequency (MHz)      |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| 20                   | QPSK       | 1       | 0         | 18.72                       | 18.78               | 18.72               | 19.05               | 18.72                | 18.82                | 19.9                 | 0                    |                     |          |
| 20                   | QPSK       | 1       | 49        | 18.78                       | 18.85               | 18.78               | 19.05               | 18.83                | 18.93                |                      |                      |                     |          |
| 20                   | QPSK       | 1       | 99        | 18.78                       | 18.79               | 18.69               | 18.99               | 18.75                | 18.78                |                      |                      |                     |          |
| 20                   | QPSK       | 50      | 0         | 18.80                       | 18.73               | 18.83               | 19.07               | 18.80                | 18.85                |                      |                      |                     |          |
| 20                   | QPSK       | 50      | 24        | 18.74                       | 18.70               | 18.76               | 19.01               | 18.60                | 18.63                |                      |                      |                     |          |
| 20                   | QPSK       | 50      | 50        | 18.77                       | 18.69               | 18.78               | 19.03               | 18.56                | 18.80                | 19.9                 | 0                    |                     |          |
| 20                   | QPSK       | 100     | 0         | 18.63                       | 18.67               | 18.76               | 19.00               | 18.77                | 18.78                |                      |                      |                     |          |
| 20                   | 16QAM      | 1       | 0         | 18.69                       | 18.67               | 18.69               | 19.04               | 18.66                | 18.73                |                      |                      |                     |          |
| 20                   | 16QAM      | 1       | 49        | 18.88                       | 18.83               | 18.81               | 18.95               | 18.69                | 18.87                | 19.9                 | 0                    |                     |          |
| 20                   | 16QAM      | 1       | 99        | 18.70                       | 18.74               | 18.55               | 18.93               | 18.50                | 18.78                |                      |                      |                     |          |
| 20                   | 16QAM      | 50      | 0         | 18.67                       | 18.62               | 18.78               | 18.95               | 18.55                | 18.78                |                      |                      |                     |          |
| 20                   | 16QAM      | 50      | 24        | 18.65                       | 18.63               | 18.70               | 18.86               | 18.53                | 18.77                | 19.9                 | 0                    |                     |          |
| 20                   | 16QAM      | 50      | 50        | 18.74                       | 18.67               | 18.76               | 18.99               | 18.41                | 18.75                |                      |                      |                     |          |
| 20                   | 16QAM      | 100     | 0         | 18.69                       | 18.63               | 18.73               | 18.97               | 18.71                | 18.72                |                      |                      |                     |          |
| 20                   | 64QAM      | 1       | 0         | 18.66                       | 18.68               | 18.63               | 18.94               | 18.66                | 18.78                |                      |                      |                     |          |
| 20                   | 64QAM      | 1       | 49        | 18.79                       | 18.72               | 18.79               | 18.96               | 18.70                | 18.85                | 19.9                 | 0                    |                     |          |
| 20                   | 64QAM      | 1       | 99        | 18.67                       | 18.66               | 18.61               | 18.91               | 18.61                | 18.77                |                      |                      |                     |          |
| 20                   | 64QAM      | 50      | 0         | 18.68                       | 18.72               | 18.78               | 18.98               | 18.05                | 18.88                |                      |                      |                     |          |
| 20                   | 64QAM      | 50      | 24        | 18.67                       | 18.63               | 18.76               | 18.98               | 18.50                | 18.75                | 19.9                 | 0                    |                     |          |
| 20                   | 64QAM      | 50      | 50        | 18.76                       | 18.65               | 18.67               | 18.99               | 18.00                | 18.74                |                      |                      |                     |          |
| 20                   | 64QAM      | 100     | 0         | 18.78                       | 18.64               | 18.61               | 18.62               | 18.65                | 18.77                |                      |                      |                     |          |
| 20                   | 256QAM     | 1       | 0         | 18.70                       | 18.73               | 18.70               | 19.00               | 18.67                | 18.69                |                      |                      |                     |          |
| 20                   | 256QAM     | 1       | 49        | 18.79                       | 18.76               | 18.68               | 18.98               | 18.44                | 18.74                | 19.9                 | 0                    |                     |          |
| 20                   | 256QAM     | 1       | 99        | 18.66                       | 18.73               | 18.65               | 18.83               | 18.60                | 18.78                |                      |                      |                     |          |
| 20                   | 256QAM     | 50      | 0         | 18.75                       | 18.69               | 18.69               | 18.94               | 18.63                | 18.73                |                      |                      |                     |          |
| 20                   | 256QAM     | 50      | 24        | 18.65                       | 18.69               | 18.69               | 18.97               | 18.58                | 18.80                | 19.9                 | 0                    |                     |          |
| 20                   | 256QAM     | 50      | 50        | 18.75                       | 18.67               | 18.75               | 18.96               | 18.52                | 18.79                |                      |                      |                     |          |
| 20                   | 256QAM     | 100     | 0         | 18.78                       | 18.66               | 18.74               | 19.03               | 18.70                | 18.74                |                      |                      |                     |          |
| Channel              |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| Frequency (MHz)      |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| 15                   | QPSK       | 1       | 0         | 18.66                       | 18.74               | 18.70               | 18.89               | 18.67                | 18.77                |                      |                      |                     |          |
| 15                   | QPSK       | 1       | 37        | 18.74                       | 18.72               | 18.81               | 19.03               | 18.82                | 18.85                | 19.9                 | 0                    |                     |          |
| 15                   | QPSK       | 1       | 74        | 18.72                       | 18.73               | 18.60               | 18.95               | 18.71                | 18.71                |                      |                      |                     |          |
| 15                   | QPSK       | 36      | 0         | 18.70                       | 18.70               | 18.74               | 19.05               | 18.63                | 18.86                |                      |                      |                     |          |
| 15                   | QPSK       | 36      | 20        | 18.62                       | 18.67               | 18.65               | 18.86               | 18.46                | 18.73                | 19.9                 | 0                    |                     |          |
| 15                   | QPSK       | 36      | 39        | 18.76                       | 18.65               | 18.65               | 18.97               | 18.42                | 18.77                |                      |                      |                     |          |
| 15                   | QPSK       | 75      | 0         | 18.78                       | 18.62               | 18.62               | 19.02               | 18.63                | 18.65                |                      |                      |                     |          |
| 15                   | 16QAM      | 1       | 0         | 18.54                       | 18.61               | 18.61               | 18.89               | 18.54                | 18.61                |                      |                      |                     |          |
| 15                   | 16QAM      | 1       | 37        | 18.77                       | 18.62               | 18.75               | 18.93               | 18.60                | 18.78                | 19.9                 | 0                    |                     |          |
| 15                   | 16QAM      | 1       | 74        | 18.65                       | 18.73               | 18.43               | 18.78               | 18.62                | 18.65                |                      |                      |                     |          |
| 15                   | 16QAM      | 36      | 0         | 18.60                       | 18.52               | 18.75               | 18.94               | 18.45                | 18.63                |                      |                      |                     |          |
| 15                   | 16QAM      | 36      | 20        | 18.53                       | 18.50               | 18.66               | 18.79               | 18.45                | 18.61                | 19.9                 | 0                    |                     |          |
| 15                   | 16QAM      | 36      | 39        | 18.65                       | 18.59               | 18.66               | 18.89               | 18.29                | 18.61                |                      |                      |                     |          |
| 15                   | 16QAM      | 75      | 0         | 18.58                       | 18.44               | 18.65               | 18.86               | 18.63                | 18.64                |                      |                      |                     |          |
| 15                   | 64QAM      | 1       | 0         | 18.63                       | 18.63               | 18.62               | 18.93               | 18.61                | 18.65                |                      |                      |                     |          |
| 15                   | 64QAM      | 1       | 37        | 18.73                       | 18.66               | 18.73               | 18.97               | 18.67                | 18.73                | 19.9                 | 0                    |                     |          |
| 15                   | 64QAM      | 1       | 74        | 18.62                       | 18.61               | 18.52               | 18.89               | 18.57                | 18.63                |                      |                      |                     |          |
| 15                   | 64QAM      | 36      | 0         | 18.58                       | 18.69               | 18.67               | 18.84               | 18.60                | 18.71                |                      |                      |                     |          |
| 15                   | 64QAM      | 36      | 20        | 18.58                       | 18.67               | 18.66               | 18.83               | 18.35                | 18.63                | 19.9                 | 0                    |                     |          |
| 15                   | 64QAM      | 36      | 39        | 18.66                       | 18.51               | 18.64               | 18.88               | 18.37                | 18.60                |                      |                      |                     |          |
| 15                   | 64QAM      | 75      | 0         | 18.77                       | 18.49               | 18.56               | 18.80               | 18.56                | 18.78                |                      |                      |                     |          |
| 15                   | 256QAM     | 1       | 0         | 18.69                       | 18.62               | 18.67               | 18.98               | 18.62                | 18.60                |                      |                      |                     |          |
| 15                   | 256QAM     | 1       | 37        | 18.70                       | 18.67               | 18.76               | 18.97               | 18.67                | 18.83                | 19.9                 | 0                    |                     |          |
| 15                   | 256QAM     | 1       | 74        | 18.63                       | 18.67               | 18.59               | 18.88               | 18.51                | 18.74                |                      |                      |                     |          |
| 15                   | 256QAM     | 36      | 0         | 18.69                       | 18.66               | 18.65               | 18.92               | 18.55                | 18.71                |                      |                      |                     |          |
| 15                   | 256QAM     | 36      | 20        | 18.61                       | 18.54               | 18.64               | 18.88               | 18.48                | 18.63                | 19.9                 | 0                    |                     |          |
| 15                   | 256QAM     | 36      | 39        | 18.73                       | 18.57               | 18.61               | 18.78               | 18.47                | 18.68                |                      |                      |                     |          |
| 15                   | 256QAM     | 75      | 0         | 18.75                       | 18.58               | 18.70               | 18.92               | 18.62                | 18.68                |                      |                      |                     |          |
| Channel              |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| Frequency (MHz)      |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| 10                   | QPSK       | 1       | 0         | 18.66                       | 18.71               | 18.67               | 18.97               | 18.59                | 18.74                |                      |                      |                     |          |
| 10                   | QPSK       | 1       | 25        | 18.80                       | 18.62               | 18.74               | 19.04               | 18.72                | 18.85                | 19.9                 | 0                    |                     |          |
| 10                   | QPSK       | 1       | 49        | 18.74                       | 18.76               | 18.60               | 18.89               | 18.68                | 18.73                |                      |                      |                     |          |
| 10                   | QPSK       | 25      | 0         | 18.79                       | 18.65               | 18.73               | 18.97               | 18.62                | 18.82                |                      |                      |                     |          |
| 10                   | QPSK       | 25      | 12        | 18.64                       | 18.67               | 18.62               | 18.89               | 18.46                | 18.71                | 19.9                 | 0                    |                     |          |
| 10                   | QPSK       | 25      | 25        | 18.74                       | 18.64               | 18.69               | 18.98               | 18.41                | 18.73                |                      |                      |                     |          |
| 10                   | QPSK       | 50      | 0         | 18.76                       | 18.60               | 18.69               | 18.93               | 18.70                | 18.81                |                      |                      |                     |          |
| 10                   | 16QAM      | 1       | 0         | 18.67                       | 18.56               | 18.64               | 18.92               | 18.60                | 18.63                |                      |                      |                     |          |
| 10                   | 16QAM      | 1       | 25        | 18.79                       | 18.76               | 18.71               | 18.84               | 18.58                | 18.77                | 19.9                 | 0                    |                     |          |
| 10                   | 16QAM      | 1       | 49        | 18.57                       | 18.64               | 18.47               | 18.78               | 18.64                | 18.62                |                      |                      |                     |          |
| 10                   | 16QAM      | 25      | 0         | 18.59                       | 18.55               | 18.74               | 18.92               | 18.41                | 18.64                |                      |                      |                     |          |
| 10                   | 16QAM      | 25      | 12        | 18.50                       | 18.50               | 18.62               | 18.87               | 18.51                | 18.70                | 19.9                 | 0                    |                     |          |
| 10                   | 16QAM      | 25      | 25        | 18.62                       | 18.63               | 18.73               | 18.92               | 18.35                | 18.70                |                      |                      |                     |          |
| 10                   | 16QAM      | 50      | 0         | 18.66                       | 18.38               | 18.72               | 18.95               | 18.69                | 18.67                |                      |                      |                     |          |
| 10                   | 64QAM      | 1       | 0         | 18.54                       | 18.56               | 18.57               | 18.80               | 18.54                | 18.71                |                      |                      |                     |          |
| 10                   | 64QAM      | 1       | 25        | 18.74                       | 18.66               | 18.74               | 18.88               | 18.69                | 18.70                | 19.9                 | 0                    |                     |          |
| 10                   | 64QAM      | 1       | 49        | 18.59                       | 18.63               | 18.60               | 18.90               | 18.60                | 18.67                |                      |                      |                     |          |
| 10                   | 64QAM      | 25      | 0         | 18.56                       | 18.66               | 18.67               | 18.96               | 18.56                | 18.63                |                      |                      |                     |          |
| 10                   | 64QAM      | 25      | 12        | 18.64                       | 18.54               | 18.74               | 18.73               | 18.42                | 18.70                | 19.9                 | 0                    |                     |          |
| 10                   | 64QAM      | 25      | 25        | 18.63                       | 18.60               | 18.55               | 18.91               | 18.47                | 18.75                |                      |                      |                     |          |
| 10                   | 64QAM      | 50      | 0         | 18.76                       | 18.46               | 18.60               | 18.79               | 18.50                | 18.66                |                      |                      |                     |          |
| 10                   | 256QAM     | 1       | 0         | 18.69                       | 18.63               | 18.61               | 18.88               | 18.65                | 18.55                |                      |                      |                     |          |
| 10                   | 256QAM     | 1       | 25        | 18.64                       | 18.71               | 18.73               | 18.83               | 18.71                | 18.80                | 19.9                 | 0                    |                     |          |
| 10                   | 256QAM     | 1       | 49        | 18.53                       | 18.63               | 18.56               | 18.87               | 18.50                | 18.64                |                      |                      |                     |          |
| 10                   | 256QAM     | 25      | 0         | 18.68                       | 18.61               | 18.61               | 18.88               | 18.62                | 18.70                |                      |                      |                     |          |
| 10                   | 256QAM     | 25      | 12        | 18.61                       | 18.52               | 18.62               | 18.78               | 18.51                | 18.79                | 19.9                 | 0                    |                     |          |
| 10                   | 256QAM     | 25      | 25        | 18.61                       | 18.66               | 18.67               | 18.89               | 18.44                | 18.77                |                      |                      |                     |          |
| 10                   | 256QAM     | 50      | 0         | 18.71                       | 18.56               | 18.69               | 18.89               | 18.55                | 18.67                |                      |                      |                     |          |
| Channel              |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| Frequency (MHz)      |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |
| 5                    | QPSK       | 1       | 0         | 18.57                       | 18.70               | 18.70               | 19.02               | 18.71                | 18.75                |                      |                      |                     |          |
| 5                    | QPSK       | 1       | 12        | 18.88                       | 18.70               | 18.72               | 18.94               | 18.72                | 18.90                | 19.9                 | 0                    |                     |          |
| 5                    | QPSK       | 1       | 24        | 18.60                       | 18.73               | 18.60               | 18.86               | 18.62                | 18.74                |                      |                      |                     |          |
| 5                    | QPSK       | 12      | 0         | 18.77                       | 18.62               | 18.72               | 18.90               | 18.58                | 18.81                |                      |                      |                     |          |
| 5                    | QPSK       | 12      | 7         | 18.70                       | 18.57               | 18.67               | 18.81               | 18.48                | 18.72                | 19.9                 | 0                    |                     |          |
| 5                    | QPSK       | 12      | 13        | 18.75                       | 18.63               | 18.67               | 18.97               | 18.51                | 18.79                |                      |                      |                     |          |
| 5                    | QPSK       | 25      | 0         | 18.78                       | 18.65               | 18.67               | 19.00               | 18.60                | 18.63                |                      |                      |                     |          |
| 5                    | 16QAM      | 1       | 0         | 18.66                       | 18.57               | 18.54               | 18.83               | 18.65                | 18.68                |                      |                      |                     |          |
| 5                    | 16QAM      | 1       | 12        | 18.76                       | 18.80               | 18.68               | 18.93               | 18.64                | 18.73                | 19.9                 | 0                    |                     |          |
| 5                    | 16QAM      | 1       | 24        | 18.69                       | 18.62               | 18.63               | 18.93               | 18.57                | 18.71                |                      |                      |                     |          |
| 5                    | 16QAM      | 12      | 0         | 18.61                       | 18.54               | 18.71               | 18.90               | 18.46                | 18.67                |                      |                      |                     |          |
| 5                    | 16QAM      | 12      | 7         | 18.59                       | 18.48               | 18.64               | 18.76               | 18.40                | 18.69                | 19.9                 | 0                    |                     |          |
| 5                    | 16QAM      | 12      | 13        | 18.68                       | 18.63               | 18.68               | 18.92               | 18.28                | 18.63                |                      |                      |                     |          |
| 5                    | 16QAM      | 25      | 0         | 18.62                       | 18.51               | 18.71               | 18.95               | 18.70                | 18.69                |                      |                      |                     |          |
| 5                    | 64QAM      | 1       | 0         | 18.59                       | 18.63               | 18.59               | 19.00               | 18.53                | 18.68                |                      |                      |                     |          |
| 5                    | 64QAM      | 1       | 12        | 18.64                       | 18.58               | 18.69               | 18.91               | 18.53                | 18.71                | 19.9                 | 0                    |                     |          |
| 5                    | 64QAM      | 1       | 24        | 18.56                       | 18.65               | 18.50               | 18.79               | 18.53                | 18.76                |                      |                      |                     |          |
| 5                    | 64QAM      | 12      | 0         | 18.58                       | 18.59               | 18.76               | 18.91               | 18.61                | 18.78                |                      |                      |                     |          |
| 5                    | 64QAM      | 12      | 7         | 18.64                       | 18.60               | 18.66               | 18.78               | 18.42                | 18.74                | 19.9                 | 0                    |                     |          |
| 5                    | 64QAM      | 12      | 13        | 18.65                       | 18.61               | 18.66               | 18.86               | 18.29                | 18.64                |                      |                      |                     |          |
| 5                    | 64QAM      | 25      | 0         | 18.66                       | 18.42               | 18.57               | 18.80               | 18.50                | 18.73                |                      |                      |                     |          |
| 5                    | 256QAM     | 1       | 0         | 18.58                       | 18.60               | 18.63               | 18.98               | 18.54                | 18.54                |                      |                      |                     |          |
| 5                    | 256QAM     | 1       | 12        | 18.70                       | 18.65               | 18.79               | 18.94               | 18.54                | 18.89                | 19.9                 | 0                    |                     |          |
| 5                    | 256QAM     | 1       | 24        | 18.58                       | 18.58               | 18.70               | 18.95               | 18.50                | 18.74                |                      |                      |                     |          |
| 5                    | 256QAM     | 12      | 0         | 18.72                       | 18.57               | 18.66               | 18.87               | 18.53                | 18.69                |                      |                      |                     |          |
| 5                    |            |         |           |                             |                     |                     |                     |                      |                      |                      |                      |                     |          |

| Band 48_Ant 10  |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
|-----------------|------------|---------|-----------|----------------------|---------------------------|-----------------------|-----------------------|---------------------|----------|---|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Low Mid. Ch. / Freq | Power High Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |   |  |  |
| Channel         |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| 20              | QPSK       | 1       | 0         | 16.67                | 16.67                     | 16.77                 | 16.79                 | 17.7                | 0        |   |  |  |
| 20              | QPSK       | 1       | 48        | 16.62                | 16.61                     | 16.74                 | 16.69                 |                     |          |   |  |  |
| 20              | QPSK       | 1       | 96        | 16.71                | 16.79                     | 16.78                 | 16.77                 |                     |          |   |  |  |
| 20              | QPSK       | 50      | 0         | 16.56                | 16.67                     | 16.62                 | 16.76                 |                     |          |   |  |  |
| 20              | QPSK       | 50      | 24        | 16.64                | 16.64                     | 16.84                 | 16.79                 | 17.7                | 0        |   |  |  |
| 20              | QPSK       | 50      | 50        | 16.62                | 16.71                     | 16.73                 | 16.70                 |                     |          |   |  |  |
| 20              | QPSK       | 100     | 0         | 16.64                | 16.65                     | 16.72                 | 16.77                 |                     |          |   |  |  |
| 20              | 16QAM      | 1       | 0         | 16.65                | 16.77                     | 16.74                 | 16.70                 |                     |          |   |  |  |
| 20              | 16QAM      | 1       | 48        | 16.65                | 16.72                     | 16.77                 | 16.85                 | 17.7                | 0        |   |  |  |
| 20              | 16QAM      | 1       | 96        | 16.80                | 16.88                     | 16.78                 | 16.81                 |                     |          |   |  |  |
| 20              | 16QAM      | 50      | 0         | 16.56                | 16.83                     | 16.84                 | 16.67                 |                     |          |   |  |  |
| 20              | 16QAM      | 50      | 24        | 16.65                | 16.67                     | 16.79                 | 16.81                 |                     | 17.7     | 0 |  |  |
| 20              | 16QAM      | 50      | 50        | 16.65                | 16.79                     | 16.85                 | 16.83                 |                     |          |   |  |  |
| 20              | 16QAM      | 100     | 0         | 16.68                | 16.82                     | 16.78                 | 16.76                 |                     |          |   |  |  |
| 20              | 64QAM      | 1       | 0         | 16.61                | 16.73                     | 16.91                 | 16.80                 | 17.7                | 0        |   |  |  |
| 20              | 64QAM      | 1       | 48        | 16.64                | 16.75                     | 16.83                 | 16.78                 |                     |          |   |  |  |
| 20              | 64QAM      | 1       | 96        | 16.66                | 16.83                     | 16.73                 | 16.69                 |                     |          |   |  |  |
| 20              | 64QAM      | 50      | 0         | 16.56                | 16.78                     | 16.79                 | 16.64                 |                     |          |   |  |  |
| 20              | 64QAM      | 50      | 24        | 16.63                | 16.77                     | 16.73                 | 16.82                 | 17.7                | 0        |   |  |  |
| 20              | 64QAM      | 50      | 50        | 16.65                | 16.71                     | 16.80                 | 16.79                 |                     |          |   |  |  |
| 20              | 64QAM      | 100     | 0         | 16.66                | 16.76                     | 16.85                 | 16.63                 |                     |          |   |  |  |
| 20              | 256QAM     | 1       | 0         | 16.59                | 16.63                     | 16.66                 | 16.77                 |                     | 17.7     | 0 |  |  |
| 20              | 256QAM     | 1       | 48        | 16.73                | 16.76                     | 16.80                 | 16.82                 |                     |          |   |  |  |
| 20              | 256QAM     | 1       | 96        | 16.58                | 16.76                     | 16.76                 | 16.82                 |                     |          |   |  |  |
| 20              | 256QAM     | 50      | 0         | 16.69                | 16.64                     | 16.81                 | 16.75                 |                     |          |   |  |  |
| 20              | 256QAM     | 50      | 24        | 16.71                | 16.80                     | 16.79                 | 16.82                 | 17.7                | 0        |   |  |  |
| 20              | 256QAM     | 50      | 50        | 16.72                | 16.80                     | 16.86                 | 16.83                 |                     |          |   |  |  |
| 20              | 256QAM     | 100     | 0         | 16.63                | 16.73                     | 16.85                 | 16.76                 |                     |          |   |  |  |
| Channel         |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| 35              | QPSK       | 1       | 0         | 16.515               | 16.602                    | 16.716                | 16.665                | Tune-up limit (dBm) | MPR (dB) |   |  |  |
| 15              | QPSK       | 1       | 0         | 16.52                | 16.61                     | 16.75                 | 16.68                 |                     |          |   |  |  |
| 15              | QPSK       | 1       | 37        | 16.65                | 16.88                     | 16.80                 | 16.79                 |                     |          |   |  |  |
| 15              | QPSK       | 1       | 74        | 16.69                | 16.64                     | 16.72                 | 16.59                 |                     |          |   |  |  |
| 15              | QPSK       | 36      | 0         | 16.63                | 16.66                     | 16.76                 | 16.69                 | 17.7                | 0        |   |  |  |
| 15              | QPSK       | 36      | 20        | 16.63                | 16.72                     | 16.77                 | 16.62                 |                     |          |   |  |  |
| 15              | QPSK       | 36      | 39        | 16.54                | 16.68                     | 16.70                 | 16.59                 |                     |          |   |  |  |
| 15              | QPSK       | 75      | 0         | 16.54                | 16.74                     | 16.65                 | 16.72                 |                     | 17.7     | 0 |  |  |
| 15              | 16QAM      | 1       | 0         | 16.57                | 16.68                     | 16.73                 | 16.68                 |                     |          |   |  |  |
| 15              | 16QAM      | 1       | 37        | 16.57                | 16.67                     | 16.68                 | 16.70                 |                     |          |   |  |  |
| 15              | 16QAM      | 1       | 74        | 16.70                | 16.79                     | 16.70                 | 16.70                 |                     |          |   |  |  |
| 15              | 16QAM      | 36      | 0         | 16.45                | 16.81                     | 16.76                 | 16.53                 | 17.7                | 0        |   |  |  |
| 15              | 16QAM      | 36      | 20        | 16.55                | 16.55                     | 16.74                 | 16.77                 |                     |          |   |  |  |
| 15              | 16QAM      | 36      | 39        | 16.54                | 16.71                     | 16.75                 | 16.72                 |                     |          |   |  |  |
| 15              | 16QAM      | 75      | 0         | 16.66                | 16.77                     | 16.75                 | 16.63                 |                     | 17.7     | 0 |  |  |
| 15              | 64QAM      | 1       | 0         | 16.49                | 16.69                     | 16.64                 | 16.61                 |                     |          |   |  |  |
| 15              | 64QAM      | 1       | 37        | 16.49                | 16.69                     | 16.70                 | 16.71                 |                     |          |   |  |  |
| 15              | 64QAM      | 1       | 74        | 16.64                | 16.73                     | 16.63                 | 16.56                 |                     |          |   |  |  |
| 15              | 64QAM      | 36      | 0         | 16.55                | 16.76                     | 16.76                 | 16.60                 | 17.7                | 0        |   |  |  |
| 15              | 64QAM      | 36      | 20        | 16.56                | 16.63                     | 16.69                 | 16.72                 |                     |          |   |  |  |
| 15              | 64QAM      | 36      | 39        | 16.53                | 16.69                     | 16.66                 | 16.76                 |                     |          |   |  |  |
| 15              | 64QAM      | 75      | 0         | 16.56                | 16.63                     | 16.79                 | 16.73                 |                     | 17.7     | 0 |  |  |
| 15              | 256QAM     | 1       | 0         | 16.51                | 16.69                     | 16.62                 | 16.68                 |                     |          |   |  |  |
| 15              | 256QAM     | 1       | 37        | 16.62                | 16.66                     | 16.79                 | 16.79                 |                     |          |   |  |  |
| 15              | 256QAM     | 1       | 74        | 16.63                | 16.67                     | 16.68                 | 16.69                 |                     |          |   |  |  |
| 15              | 256QAM     | 36      | 0         | 16.54                | 16.69                     | 16.69                 | 16.71                 | 17.7                | 0        |   |  |  |
| 15              | 256QAM     | 36      | 20        | 16.58                | 16.71                     | 16.72                 | 16.75                 |                     |          |   |  |  |
| 15              | 256QAM     | 36      | 39        | 16.71                | 16.68                     | 16.83                 | 16.57                 |                     |          |   |  |  |
| 15              | 256QAM     | 75      | 0         | 16.50                | 16.72                     | 16.54                 | 16.63                 |                     |          |   |  |  |
| Channel         |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| 35              | QPSK       | 1       | 0         | 16.555               | 16.615                    | 16.715                | 16.665                | Tune-up limit (dBm) | MPR (dB) |   |  |  |
| 15              | QPSK       | 1       | 0         | 16.56                | 16.66                     | 16.79                 | 16.73                 |                     |          |   |  |  |
| 15              | QPSK       | 1       | 25        | 16.68                | 16.90                     | 16.69                 | 16.80                 |                     |          |   |  |  |
| 15              | QPSK       | 1       | 49        | 16.60                | 16.66                     | 16.63                 | 16.60                 |                     |          |   |  |  |
| 10              | QPSK       | 25      | 0         | 16.57                | 16.76                     | 16.74                 | 16.65                 | 17.7                | 0        |   |  |  |
| 10              | QPSK       | 25      | 12        | 16.50                | 16.69                     | 16.73                 | 16.68                 |                     |          |   |  |  |
| 10              | QPSK       | 25      | 25        | 16.60                | 16.69                     | 16.58                 | 16.59                 |                     |          |   |  |  |
| 10              | QPSK       | 50      | 0         | 16.59                | 16.71                     | 16.67                 | 16.74                 |                     |          |   |  |  |
| 10              | 16QAM      | 1       | 0         | 16.57                | 16.71                     | 16.70                 | 16.59                 | 17.7                | 0        |   |  |  |
| 10              | 16QAM      | 1       | 25        | 16.57                | 16.60                     | 16.76                 | 16.70                 |                     |          |   |  |  |
| 10              | 16QAM      | 1       | 49        | 16.69                | 16.67                     | 16.68                 | 16.76                 |                     |          |   |  |  |
| 10              | 16QAM      | 25      | 0         | 16.55                | 16.82                     | 16.81                 | 16.58                 |                     | 17.7     | 0 |  |  |
| 10              | 16QAM      | 25      | 12        | 16.59                | 16.62                     | 16.74                 | 16.74                 |                     |          |   |  |  |
| 10              | 16QAM      | 25      | 25        | 16.62                | 16.76                     | 16.61                 | 16.74                 |                     |          |   |  |  |
| 10              | 16QAM      | 50      | 0         | 16.56                | 16.67                     | 16.65                 | 16.73                 |                     |          |   |  |  |
| 10              | 64QAM      | 1       | 0         | 16.55                | 16.65                     | 16.83                 | 16.76                 | 17.7                | 0        |   |  |  |
| 10              | 64QAM      | 1       | 25        | 16.59                | 16.70                     | 16.68                 | 16.69                 |                     |          |   |  |  |
| 10              | 64QAM      | 1       | 49        | 16.54                | 16.71                     | 16.68                 | 16.59                 |                     |          |   |  |  |
| 10              | 64QAM      | 25      | 0         | 16.54                | 16.73                     | 16.64                 | 16.63                 |                     | 17.7     | 0 |  |  |
| 10              | 64QAM      | 25      | 12        | 16.52                | 16.65                     | 16.67                 | 16.77                 |                     |          |   |  |  |
| 10              | 64QAM      | 25      | 25        | 16.51                | 16.66                     | 16.75                 | 16.79                 |                     |          |   |  |  |
| 10              | 64QAM      | 50      | 0         | 16.53                | 16.67                     | 16.83                 | 16.66                 |                     |          |   |  |  |
| 10              | 256QAM     | 1       | 0         | 16.46                | 16.78                     | 16.51                 | 16.66                 | 17.7                | 0        |   |  |  |
| 10              | 256QAM     | 1       | 25        | 16.64                | 16.67                     | 16.68                 | 16.80                 |                     |          |   |  |  |
| 10              | 256QAM     | 1       | 49        | 16.45                | 16.73                     | 16.72                 | 16.65                 |                     |          |   |  |  |
| 10              | 256QAM     | 25      | 0         | 16.53                | 16.80                     | 16.73                 | 16.70                 |                     | 17.7     | 0 |  |  |
| 10              | 256QAM     | 25      | 12        | 16.70                | 16.77                     | 16.73                 | 16.76                 |                     |          |   |  |  |
| 10              | 256QAM     | 25      | 25        | 16.68                | 16.68                     | 16.77                 | 16.55                 |                     |          |   |  |  |
| 10              | 256QAM     | 50      | 0         | 16.57                | 16.70                     | 16.61                 | 16.66                 |                     |          |   |  |  |
| Channel         |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| Frequency (MHz) |            |         |           |                      |                           |                       |                       |                     |          |   |  |  |
| 5               | QPSK       | 1       | 0         | 16.63                | 16.58                     | 16.72                 | 16.65                 | Tune-up limit (dBm) | MPR (dB) |   |  |  |
| 5               | QPSK       | 1       | 12        | 16.79                | 16.83                     | 16.76                 | 16.73                 |                     |          |   |  |  |
| 5               | QPSK       | 1       | 24        | 16.61                | 16.73                     | 16.74                 | 16.60                 |                     |          |   |  |  |
| 5               | QPSK       | 12      | 0         | 16.51                | 16.74                     | 16.72                 | 16.63                 |                     |          |   |  |  |
| 5               | QPSK       | 12      | 7         | 16.54                | 16.73                     | 16.65                 | 16.63                 |                     |          |   |  |  |
| 5               | QPSK       | 12      | 13        | 16.57                | 16.56                     | 16.62                 | 16.58                 |                     |          |   |  |  |
| 5               | QPSK       | 26      | 0         | 16.58                | 16.70                     | 16.57                 | 16.67                 |                     |          |   |  |  |
| 5               | 16QAM      | 1       | 0         | 16.60                | 16.72                     | 16.63                 | 16.64                 |                     |          |   |  |  |
| 5               | 16QAM      | 1       | 12        | 16.56                | 16.70                     | 16.71                 | 16.84                 |                     |          |   |  |  |
| 5               | 16QAM      | 1       | 24        | 16.65                | 16.83                     | 16.67                 | 16.75                 |                     |          |   |  |  |
| 5               | 16QAM      | 12      | 0         | 16.45                | 16.81                     | 16.76                 | 16.65                 |                     |          |   |  |  |
| 5               | 16QAM      | 12      | 7         | 16.56                | 16.63                     | 16.74                 | 16.80                 |                     |          |   |  |  |
| 5               | 16QAM      | 12      | 13        | 16.60                | 16.72                     | 16.84                 | 16.69                 |                     |          |   |  |  |
| 5               | 16QAM      | 26      | 0         | 16.58                | 16.79                     | 16.67                 | 16.73                 |                     |          |   |  |  |
| 5               | 64QAM      | 1       | 0         | 16.58                | 16.59                     | 16.69                 | 16.68                 | 17.7                | 0        |   |  |  |
| 5               | 64QAM      | 1       | 12        | 16.52                | 16.62                     | 16.76                 | 16.66                 |                     |          |   |  |  |
| 5               | 64QAM      | 1       | 24        | 16.54                | 16.73                     | 16.69                 | 16.54                 |                     |          |   |  |  |
| 5               | 64QAM      | 12      | 0         | 16.41                | 16.73                     | 16.76                 | 16.54                 |                     |          |   |  |  |
| 5               | 64QAM      | 12      | 7         | 16.58                | 16.73                     | 16.59                 | 16.76                 |                     |          |   |  |  |
| 5               | 64QAM      | 12      | 13        | 16.58                | 16.60                     | 16.67                 | 16.72                 |                     |          |   |  |  |
| 5               | 64QAM      | 26      | 0         | 16.58                | 16.76                     | 16.62                 | 16.68                 |                     |          |   |  |  |
| 5               | 256QAM     | 1       | 0         | 16.55                | 16.71                     | 16.80                 | 16.76                 |                     |          |   |  |  |
| 5               | 256QAM     | 1       | 12        | 16.60                | 16.62                     | 16.70                 | 16.70                 |                     |          |   |  |  |
| 5               | 256QAM     | 1       | 24        | 16.50                | 16.73                     | 16.68                 | 16.76                 |                     |          |   |  |  |
| 5               | 256QAM     | 12      | 0         | 16.54                | 16.81                     | 16.70                 | 16.64                 |                     |          |   |  |  |
| 5               | 256QAM     | 12      | 7         | 16.61                | 16.75                     | 16.76                 | 16.72                 |                     |          |   |  |  |
| 5               | 256QAM     | 12      | 13        | 16.65                | 16.65                     | 16.80                 | 16.58                 |                     |          |   |  |  |
| 5               | 256QAM     | 26      | 0         | 16.59                | 16.64                     | 16.61                 | 16.65                 |                     |          |   |  |  |

| Band 48_Ant 8   |            |         |           |                       |                            |                            |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|----------------------------|----------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Mid. Ch. / Freq. | Power Low High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                            |                            |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                            |                            |                        |                     |          |
|                 |            |         |           | 5560                  | 5600                       | 5640                       | 5680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 16.31                 | 16.25                      | 16.36                      | 16.23                  |                     |          |
| 20              | QPSK       | 1       | 48        | 16.43                 | 16.38                      | 16.37                      | 16.29                  | 16.7                | 0        |
| 20              | QPSK       | 1       | 96        | 16.40                 | 16.35                      | 16.31                      | 16.23                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.42                 | 16.31                      | 16.31                      | 16.23                  |                     |          |
| 20              | QPSK       | 50      | 24        | 16.24                 | 16.10                      | 16.22                      | 16.10                  | 16.7                | 0        |
| 20              | QPSK       | 50      | 50        | 16.32                 | 16.18                      | 16.18                      | 16.14                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.32                 | 16.18                      | 16.22                      | 16.18                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 16.37                 | 16.21                      | 16.21                      | 16.28                  | 16.4                |          |
| 20              | 16QAM      | 1       | 48        | 16.22                 | 16.24                      | 16.37                      | 16.13                  | 16.7                | 0        |
| 20              | 16QAM      | 1       | 96        | 16.42                 | 16.31                      | 16.31                      | 16.17                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 16.30                 | 16.20                      | 16.23                      | 16.21                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 16.36                 | 16.26                      | 16.21                      | 16.18                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 16.30                 | 16.19                      | 16.37                      | 16.07                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 16.28                 | 16.18                      | 16.29                      | 16.26                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 16.34                 | 16.21                      | 16.21                      | 16.11                  |                     |          |
| 20              | 64QAM      | 1       | 48        | 16.36                 | 16.35                      | 16.24                      | 16.16                  | 16.7                | 0        |
| 20              | 64QAM      | 1       | 96        | 16.32                 | 16.24                      | 16.31                      | 16.24                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 16.36                 | 16.31                      | 16.31                      | 16.25                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 16.31                 | 16.24                      | 16.21                      | 16.20                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 16.34                 | 16.20                      | 16.20                      | 16.08                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 16.38                 | 16.29                      | 16.33                      | 16.14                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.26                 | 16.32                      | 16.34                      | 16.14                  |                     |          |
| 20              | 256QAM     | 1       | 48        | 16.27                 | 16.22                      | 16.37                      | 16.13                  | 16.7                | 0        |
| 20              | 256QAM     | 1       | 96        | 16.26                 | 16.31                      | 16.33                      | 16.23                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.28                 | 16.33                      | 16.33                      | 16.23                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 16.38                 | 16.24                      | 16.32                      | 16.29                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 16.37                 | 16.26                      | 16.26                      | 16.20                  | 16.7                | 0        |
| 20              | 256QAM     | 100     | 0         | 16.32                 | 16.18                      | 16.18                      | 16.10                  |                     |          |
| Channel         |            |         |           |                       |                            |                            |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                            |                            |                        |                     |          |
|                 |            |         |           | 56115                 | 56635                      | 56165                      | 56665                  | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 0         | 16.24                 | 16.23                      | 16.30                      | 16.11                  |                     |          |
| 15              | QPSK       | 1       | 37        | 16.31                 | 16.32                      | 16.30                      | 16.17                  | 16.7                | 0        |
| 15              | QPSK       | 1       | 74        | 16.28                 | 16.27                      | 16.27                      | 16.17                  |                     |          |
| 15              | QPSK       | 36      | 0         | 16.35                 | 16.26                      | 16.16                      | 16.17                  |                     |          |
| 15              | QPSK       | 36      | 20        | 16.21                 | 16.02                      | 16.15                      | 16.02                  | 16.7                | 0        |
| 15              | QPSK       | 36      | 56        | 16.13                 | 16.04                      | 16.16                      | 16.08                  |                     |          |
| 15              | QPSK       | 75      | 0         | 16.27                 | 16.14                      | 16.21                      | 16.15                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 16.23                 | 16.20                      | 16.20                      | 16.06                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 16.18                 | 16.13                      | 16.25                      | 16.08                  | 16.7                | 0        |
| 15              | 16QAM      | 1       | 74        | 16.28                 | 16.21                      | 16.21                      | 16.06                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 16.29                 | 16.12                      | 16.08                      | 16.06                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 16.34                 | 16.19                      | 16.19                      | 16.05                  |                     |          |
| 15              | 16QAM      | 36      | 56        | 16.26                 | 16.17                      | 16.17                      | 16.03                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 16.17                 | 16.13                      | 16.05                      | 15.98                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 16.28                 | 16.10                      | 16.06                      | 16.05                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 16.31                 | 16.25                      | 16.13                      | 16.07                  | 16.7                | 0        |
| 15              | 64QAM      | 1       | 74        | 16.21                 | 16.08                      | 16.08                      | 16.00                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 16.25                 | 16.21                      | 16.24                      | 16.17                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 16.24                 | 16.16                      | 16.20                      | 16.16                  | 16.7                | 0        |
| 15              | 64QAM      | 36      | 56        | 16.23                 | 16.17                      | 16.17                      | 15.99                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 16.24                 | 16.28                      | 16.22                      | 16.23                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 16.14                 | 16.21                      | 16.28                      | 16.04                  |                     |          |
| 15              | 256QAM     | 1       | 37        | 16.29                 | 16.13                      | 16.25                      | 16.12                  | 16.7                | 0        |
| 15              | 256QAM     | 1       | 74        | 16.17                 | 16.22                      | 16.16                      | 16.18                  |                     |          |
| 15              | 256QAM     | 36      | 0         | 16.22                 | 16.25                      | 16.11                      | 16.01                  |                     |          |
| 15              | 256QAM     | 36      | 20        | 16.25                 | 16.22                      | 16.24                      | 16.21                  |                     |          |
| 15              | 256QAM     | 36      | 56        | 16.22                 | 16.20                      | 16.21                      | 16.14                  | 16.7                | 0        |
| 15              | 256QAM     | 75      | 0         | 16.18                 | 16.10                      | 16.13                      | 16.03                  |                     |          |
| Channel         |            |         |           |                       |                            |                            |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                            |                            |                        |                     |          |
|                 |            |         |           | 56260                 | 56615                      | 56165                      | 56665                  | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 0         | 16.23                 | 16.14                      | 16.28                      | 16.21                  |                     |          |
| 10              | QPSK       | 1       | 25        | 16.39                 | 16.21                      | 16.32                      | 16.22                  |                     |          |
| 10              | QPSK       | 1       | 48        | 16.34                 | 16.22                      | 16.22                      | 16.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 16.30                 | 16.22                      | 16.22                      | 16.22                  |                     |          |
| 10              | QPSK       | 25      | 12        | 16.16                 | 16.02                      | 16.11                      | 16.08                  |                     |          |
| 10              | QPSK       | 25      | 24        | 16.28                 | 16.17                      | 16.17                      | 16.09                  |                     |          |
| 10              | QPSK       | 50      | 0         | 16.25                 | 16.20                      | 16.29                      | 16.15                  |                     |          |
| 10              | 16QAM      | 1       | 0         | 16.27                 | 16.10                      | 16.21                      | 16.03                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 16.18                 | 16.19                      | 16.25                      | 16.11                  | 16.7                | 0        |
| 10              | 16QAM      | 1       | 48        | 16.30                 | 16.17                      | 16.28                      | 16.10                  |                     |          |
| 10              | 16QAM      | 25      | 0         | 16.26                 | 16.14                      | 16.18                      | 16.09                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 16.35                 | 16.19                      | 16.11                      | 16.14                  |                     |          |
| 10              | 16QAM      | 25      | 24        | 16.28                 | 16.08                      | 16.22                      | 16.12                  | 16.7                | 0        |
| 10              | 16QAM      | 50      | 0         | 16.19                 | 16.11                      | 16.16                      | 15.98                  |                     |          |
| 10              | 64QAM      | 1       | 0         | 16.32                 | 16.08                      | 16.17                      | 16.05                  |                     |          |
| 10              | 64QAM      | 1       | 25        | 16.32                 | 16.24                      | 16.22                      | 16.14                  | 16.7                | 0        |
| 10              | 64QAM      | 1       | 48        | 16.26                 | 16.06                      | 16.25                      | 16.14                  |                     |          |
| 10              | 64QAM      | 25      | 0         | 16.22                 | 16.25                      | 16.25                      | 16.11                  |                     |          |
| 10              | 64QAM      | 25      | 12        | 16.28                 | 16.14                      | 16.14                      | 16.17                  |                     |          |
| 10              | 64QAM      | 25      | 24        | 16.29                 | 16.08                      | 16.16                      | 16.03                  | 16.7                | 0        |
| 10              | 64QAM      | 50      | 0         | 16.25                 | 16.16                      | 16.12                      | 16.24                  |                     |          |
| 10              | 256QAM     | 1       | 0         | 16.19                 | 16.24                      | 16.32                      | 15.99                  |                     |          |
| 10              | 256QAM     | 1       | 25        | 16.26                 | 16.11                      | 16.35                      | 16.03                  |                     |          |
| 10              | 256QAM     | 1       | 48        | 16.10                 | 16.23                      | 16.23                      | 16.20                  |                     |          |
| 10              | 256QAM     | 25      | 0         | 16.18                 | 16.27                      | 16.13                      | 16.12                  |                     |          |
| 10              | 256QAM     | 25      | 12        | 16.24                 | 16.22                      | 16.19                      | 16.18                  |                     |          |
| 10              | 256QAM     | 25      | 24        | 16.24                 | 16.17                      | 16.25                      | 16.10                  | 16.7                | 0        |
| 10              | 256QAM     | 50      | 0         | 16.08                 | 16.21                      | 16.25                      | 16.06                  |                     |          |
| Channel         |            |         |           |                       |                            |                            |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                            |                            |                        |                     |          |
|                 |            |         |           | 56655                 | 56610                      | 56170                      | 56715                  | Tune-up limit (dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 0         | 16.19                 | 16.19                      | 16.22                      | 16.19                  |                     |          |
| 5               | QPSK       | 1       | 24        | 16.30                 | 16.17                      | 16.21                      | 16.29                  |                     |          |
| 5               | QPSK       | 1       | 24        | 16.27                 | 16.30                      | 16.21                      | 15.95                  |                     |          |
| 5               | QPSK       | 12      | 0         | 16.40                 | 16.19                      | 16.22                      | 16.16                  |                     |          |
| 5               | QPSK       | 12      | 7         | 16.21                 | 16.01                      | 16.20                      | 16.08                  | 16.7                | 0        |
| 5               | QPSK       | 12      | 13        | 16.25                 | 16.17                      | 16.11                      | 16.08                  |                     |          |
| 5               | QPSK       | 25      | 0         | 16.35                 | 16.22                      | 16.24                      | 16.04                  |                     |          |
| 5               | QPSK       | 25      | 7         | 16.35                 | 16.06                      | 16.21                      | 16.00                  |                     |          |
| 5               | 16QAM      | 1       | 0         | 16.20                 | 16.19                      | 16.22                      | 16.02                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 16.38                 | 16.20                      | 16.25                      | 16.09                  |                     |          |
| 5               | 16QAM      | 12      | 0         | 16.31                 | 16.11                      | 16.09                      | 16.18                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 16.22                 | 16.23                      | 16.10                      | 16.15                  | 16.7                | 0        |
| 5               | 16QAM      | 12      | 13        | 16.28                 | 16.08                      | 16.20                      | 16.15                  |                     |          |
| 5               | 16QAM      | 25      | 0         | 16.24                 | 16.04                      | 16.06                      | 16.03                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 16.22                 | 16.18                      | 16.08                      | 16.02                  |                     |          |
| 5               | 64QAM      | 1       | 24        | 16.26                 | 16.24                      | 16.16                      | 16.06                  | 16.7                | 0        |
| 5               | 64QAM      | 1       | 24        | 16.26                 | 16.09                      | 16.37                      | 16.12                  |                     |          |
| 5               | 64QAM      | 12      | 0         | 16.32                 | 16.24                      | 16.16                      | 16.23                  |                     |          |
| 5               | 64QAM      | 12      | 7         | 16.21                 | 16.16                      | 16.07                      | 16.14                  | 16.7                | 0        |
| 5               | 64QAM      | 12      | 13        | 16.25                 | 16.07                      | 16.20                      | 16.07                  |                     |          |
| 5               | 64QAM      | 25      | 0         | 16.23                 | 16.21                      | 16.09                      | 16.22                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 16.25                 | 16.23                      | 16.20                      | 16.05                  |                     |          |
| 5               | 256QAM     | 1       | 12        | 16.16                 | 16.20                      | 16.20                      | 16.05                  | 16.7                | 0        |
| 5               | 256QAM     | 1       | 24        | 16.16                 | 16.26                      | 16.21                      | 16.07                  |                     |          |
| 5               | 256QAM     | 12      | 0         | 16.24                 | 16.18                      | 16.08                      | 16.04                  |                     |          |
| 5               | 256QAM     | 12      | 7         | 16.27                 | 16.11                      | 16.25                      | 16.23                  | 16.7                | 0        |
| 5               | 256QAM     | 12      | 13        | 16.32                 | 16.21                      | 16.23                      | 16.08                  |                     |          |
| 5               | 256QAM     | 25      | 0         | 16.34                 | 16.02                      | 16.31                      | 16.07                  |                     |          |



Full&amp;Default Power Mode

| n2_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |  |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>370000 | Power Middle<br>Ch. 1 Freq.<br>375000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Channel         |            |         |           | 1860                               | 1860                                  | 1900                                | 24.0                   | 0.0         |  |  |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |  |  |
| 20              | Pl2 BPSK   | 1       | 1         | 23.18                              | 23.27                                 | 23.17                               |                        |             |  |  |  |
| 20              | Pl2 BPSK   | 1       | 53        | 23.18                              | 23.28                                 | 23.18                               |                        |             |  |  |  |
| 20              | Pl2 BPSK   | 1       | 104       | 23.24                              | 23.28                                 | 23.16                               | 24.0                   | 0.0         |  |  |  |
| 20              | Pl2 BPSK   | 50      | 0         | 23.11                              | 23.15                                 | 23.09                               | 24.0                   | 0.0         |  |  |  |
| 20              | Pl2 BPSK   | 50      | 28        | 23.06                              | 23.16                                 | 23.14                               | 24.0                   | 0.0         |  |  |  |
| 20              | Pl2 BPSK   | 50      | 56        | 23.09                              | 23.19                                 | 23.16                               | 24.0                   | 0.0         |  |  |  |
| 20              | Pl2 BPSK   | 100     | 0         | 23.16                              | 23.20                                 | 23.12                               | 24.0                   | 0.0         |  |  |  |
| 20              | QPSK       | 1       | 1         | 23.25                              | 23.30                                 | 23.22                               | 24.0                   | 0.0         |  |  |  |
| 20              | QPSK       | 1       | 53        | 23.24                              | 23.28                                 | 23.18                               |                        |             |  |  |  |
| 20              | QPSK       | 1       | 104       | 23.17                              | 23.24                                 | 23.20                               |                        |             |  |  |  |
| 20              | QPSK       | 50      | 0         | 22.73                              | 22.83                                 | 22.77                               |                        | 0.0         |  |  |  |
| 20              | QPSK       | 50      | 28        | 23.16                              | 23.19                                 | 23.11                               | 24.0                   | 0.0         |  |  |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.82                                 | 22.76                               | 24.0                   | 0.0         |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.03                              | 23.11                                 | 23.03                               | 24.0                   | 0.0         |  |  |  |
| 20              | 16QAM      | 1       | 1         | 23.05                              | 23.07                                 | 23.05                               | 24.0                   | 0.0         |  |  |  |
| 20              | 64QAM      | 1       | 1         | 21.56                              | 21.62                                 | 21.52                               | 22.5                   | 1.5         |  |  |  |
| 20              | 256QAM     | 1       | 1         | 19.48                              | 19.53                                 | 19.47                               | 20.5                   | 3.5         |  |  |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz) |            |         |           | 1860.5                             | 1860                                  | 1902.5                              | 24.0                   | 0.0         |  |  |  |
| 15              | QPSK       | 1       | 1         | 23.18                              | 23.26                                 | 23.18                               |                        |             |  |  |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              |                        |             |  |  |  |
| Frequency (MHz) |            |         |           | 1865                               | 1860                                  | 1905                                |                        |             |  |  |  |
| 10              | QPSK       | 1       | 1         | 23.22                              | 23.20                                 | 23.16                               | 24.0                   | 0.0         |  |  |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1860                                  | 1907.5                              | 24.0                   | 0.0         |  |  |  |
| 5               | QPSK       | 1       | 1         | 23.15                              | 23.22                                 | 23.16                               |                        |             |  |  |  |

| n2_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |      |     |  |      |     |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|------|-----|--|------|-----|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>372000 | Power Middle<br>Ch. 1 Freq.<br>376000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |      |     |  |      |     |  |
| Channel         |            |         |           | 1860                               | 1860                                  | 1900                                | 24.0                   | 0.0         |  |      |     |  |      |     |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |      |     |  |      |     |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.84                              | 22.96                                 | 22.89                               |                        |             |  | 24.0 | 0.0 |  |      |     |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.84                              | 23.04                                 | 22.95                               |                        |             |  |      |     |  |      |     |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.89                              | 22.98                                 | 22.89                               |                        |             |  |      |     |  |      |     |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.44                              | 22.49                                 | 22.46                               | 23.5                   | 0.5         |  |      |     |  |      |     |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.93                              | 22.95                                 | 22.87                               |                        |             |  | 24.0 | 0.0 |  |      |     |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.39                              | 22.45                                 | 22.44                               |                        |             |  |      |     |  | 23.5 | 0.5 |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.49                              | 22.52                                 | 22.45                               |                        |             |  |      |     |  |      |     |  |
| 20              | QPSK       | 1       | 1         | 23.02                              | 23.10                                 | 23.03                               | 24.0                   | 0.0         |  |      |     |  |      |     |  |
| 20              | QPSK       | 1       | 53        | 22.93                              | 22.99                                 | 22.86                               |                        |             |  |      |     |  |      |     |  |
| 20              | QPSK       | 1       | 104       | 22.84                              | 23.03                                 | 23.00                               |                        |             |  |      |     |  |      |     |  |
| 20              | QPSK       | 50      | 0         | 21.85                              | 21.89                                 | 21.81                               |                        |             |  | 23.0 | 1.0 |  |      |     |  |
| 20              | QPSK       | 50      | 28        | 22.94                              | 22.98                                 | 22.91                               | 23.0                   | 0.0         |  |      |     |  |      |     |  |
| 20              | QPSK       | 50      | 56        | 21.85                              | 21.93                                 | 21.83                               |                        |             |  |      |     |  | 23.0 | 1.0 |  |
| 20              | QPSK       | 100     | 0         | 21.91                              | 21.95                                 | 21.85                               |                        |             |  |      |     |  |      |     |  |
| 20              | 16QAM      | 1       | 1         | 22.09                              | 22.10                                 | 22.02                               |                        |             |  | 23.0 | 1.0 |  |      |     |  |
| 20              | 64QAM      | 1       | 1         | 20.46                              | 20.54                                 | 20.47                               | 21.5                   | 2.5         |  |      |     |  |      |     |  |
| 20              | 256QAM     | 1       | 1         | 18.43                              | 18.51                                 | 18.43                               |                        |             |  |      |     |  | 19.5 | 4.5 |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              |                        |             |  |      |     |  |      |     |  |
| Frequency (MHz) |            |         |           | 1867.5                             | 1860                                  | 1902.5                              |                        |             |  |      |     |  |      |     |  |
| 15              | QPSK       | 1       | 1         | 22.91                              | 22.87                                 | 22.88                               | 24.0                   | 0.0         |  |      |     |  |      |     |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              |                        |             |  |      |     |  |      |     |  |
| Frequency (MHz) |            |         |           | 1865                               | 1860                                  | 1905                                |                        |             |  |      |     |  |      |     |  |
| 10              | QPSK       | 1       | 1         | 22.89                              | 22.90                                 | 22.83                               |                        |             |  | 24.0 | 0.0 |  |      |     |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |      |     |  |      |     |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1860                                  | 1907.5                              |                        |             |  |      |     |  |      |     |  |
| 5               | QPSK       | 1       | 1         | 22.90                              | 22.93                                 | 22.86                               |                        |             |  |      |     |  | 24.0 | 0.0 |  |

| n5_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>167800 | Power Middle<br>Ch. 1 Freq.<br>167900 | Power High<br>Ch. 1 Freq.<br>167900 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                | 836.5                                 | 839                                 | 24.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.78                              | 22.82                                 | 22.80                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.89                              | 22.96                                 | 22.87                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.76                              | 22.86                                 | 22.78                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.78                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.90                              | 22.95                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.77                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.78                              | 22.88                                 | 22.83                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 22.95                              | 23.00                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 22.79                              | 22.82                                 | 22.79                               |                        |             |  |
| 20              | QPSK       | 1       | 104       | 22.82                              | 22.85                                 | 22.76                               |                        |             |  |
| 20              | QPSK       | 50      | 0         | 22.76                              | 22.85                                 | 22.76                               |                        | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.86                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.87                              | 22.90                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 22.87                              | 22.92                                 | 22.87                               | 24.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.61                              | 21.65                                 | 21.55                               | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.69                              | 19.71                                 | 19.67                               | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               | 24.0                   | 0.0         |  |
| 15              | QPSK       | 1       | 1         | 22.78                              | 22.83                                 | 22.84                               |                        |             |  |
| Channel         |            |         |           | 167800                             | 167900                                | 168000                              |                        |             |  |
| Frequency (MHz) |            |         |           | 839                                | 839.5                                 | 844                                 |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.83                              | 22.98                                 | 22.76                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 167300                             | 167900                                | 168500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               | 24.0                   | 0.0         |  |
| 5               | QPSK       | 1       | 1         | 22.83                              | 22.83                                 | 22.83                               |                        |             |  |

| n5_Ant 1        |            |         |           |                                 |                                    |                                  |                        |             |  |
|-----------------|------------|---------|-----------|---------------------------------|------------------------------------|----------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>16680 | Power Middle<br>Ch. Freq.<br>16730 | Power High<br>Ch. Freq.<br>16780 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                             | 836.5                              | 839                              |                        |             |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.74                           | 22.77                              | 22.70                            | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.91                           | 22.86                              | 22.89                            |                        |             |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.85                           | 22.88                              | 22.82                            |                        |             |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.81                           | 22.85                              | 22.79                            | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.79                           | 22.89                              | 22.79                            | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.78                           | 22.89                              | 22.84                            | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.68                           | 22.78                              | 22.75                            |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.95                           | 22.98                              | 22.85                            |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.72                           | 22.78                              | 22.73                            | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.86                           | 22.89                              | 22.81                            | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 22.73                           | 22.82                              | 22.74                            |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.80                           | 22.90                              | 22.82                            |                        | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 22.74                           | 22.80                              | 22.74                            | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.65                           | 22.69                              | 22.63                            |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 22.81                           | 22.85                              | 22.78                            | 24.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.51                           | 21.61                              | 21.56                            | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.62                           | 19.64                              | 19.62                            | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                          | 167300                             | 168300                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.87                           | 22.93                              | 22.87                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 165800                          | 167300                             | 168800                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.90                           | 22.90                              | 22.87                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166300                          | 167300                             | 168300                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.93                           | 22.96                              | 22.83                            | 24.0                   | 0.0         |  |

| n7_Ant 9        |            |         |           |                                 |                                    |                                  |                        |             |  |
|-----------------|------------|---------|-----------|---------------------------------|------------------------------------|----------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>50400 | Power Middle<br>Ch. Freq.<br>50700 | Power High<br>Ch. Freq.<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 2520                            | 2535                               | 2550                             |                        |             |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.88                           | 23.08                              | 23.05                            | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.10                           | 23.24                              | 23.15                            |                        |             |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.07                           | 23.23                              | 23.21                            |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.90                           | 23.05                              | 23.01                            | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 54        | 22.99                           | 23.15                              | 23.10                            | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.99                           | 23.12                              | 23.04                            | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.99                           | 23.11                              | 23.07                            |                        |             |  |
| 40              | QPSK       | 1       | 1         | 23.11                           | 23.26                              | 23.22                            |                        |             |  |
| 40              | QPSK       | 1       | 108       | 22.86                           | 23.11                              | 23.03                            | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 23.07                           | 23.23                              | 23.20                            | 24.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 0         | 22.85                           | 23.05                              | 22.96                            |                        |             |  |
| 40              | QPSK       | 108     | 54        | 23.00                           | 23.20                              | 23.17                            |                        | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 22.89                           | 23.09                              | 23.05                            | 24.0                   | 0.0         |  |
| 40              | QPSK       | 216     | 0         | 23.05                           | 23.18                              | 23.08                            |                        |             |  |
| 40              | 16QAM      | 1       | 1         | 23.13                           | 23.25                              | 23.23                            | 24.0                   | 0.0         |  |
| 40              | 64QAM      | 1       | 1         | 22.31                           | 22.51                              | 22.44                            | 23.0                   | 1.0         |  |
| 40              | 256QAM     | 1       | 1         | 20.29                           | 20.47                              | 20.37                            | 21.0                   | 3.0         |  |
| Channel         |            |         |           | 503000                          | 507000                             | 511000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 30              | QPSK       | 1       | 1         | 23.04                           | 23.16                              | 23.14                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                          | 507000                             | 511000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 25              | QPSK       | 1       | 1         | 23.09                           | 23.24                              | 23.18                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                          | 507000                             | 512000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 20              | QPSK       | 1       | 1         | 23.05                           | 23.17                              | 23.19                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                          | 507000                             | 513000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 15              | QPSK       | 1       | 1         | 23.04                           | 23.22                              | 23.13                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                          | 507000                             | 513000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 10              | QPSK       | 1       | 1         | 23.01                           | 23.20                              | 23.16                            | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                          | 507000                             | 513000                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                 |                                    |                                  |                        |             |  |
| 5               | QPSK       | 1       | 1         | 23.07                           | 23.23                              | 23.19                            | 24.0                   | 0.0         |  |

| n7_Ant 1        |            |         |           |                                |                                   |                                 |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------------|-----------------------------------|---------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq<br>50400 | Power Middle<br>Ch. Freq<br>50700 | Power High<br>Ch. Freq<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 2520                           | 2535                              | 2550                            |                        |             |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.88                          | 23.07                             | 22.88                           | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.12                          | 23.17                             | 23.11                           |                        |             |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.11                          | 23.21                             | 23.17                           |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.90                          | 22.95                             | 22.83                           | 23.5                   | 0.5         |  |
| 40              | PI2 BPSK   | 108     | 54        | 23.04                          | 23.06                             | 22.97                           | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.84                          | 22.71                             | 22.70                           | 23.5                   | 0.5         |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.70                          | 22.72                             | 22.68                           |                        |             |  |
| 40              | QPSK       | 1       | 1         | 23.14                          | 23.23                             | 23.19                           |                        |             |  |
| 40              | QPSK       | 1       | 108       | 23.10                          | 23.14                             | 23.09                           | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 23.13                          | 23.17                             | 23.17                           | 23.0                   | 1.0         |  |
| 40              | QPSK       | 108     | 0         | 22.93                          | 22.11                             | 22.06                           |                        |             |  |
| 40              | QPSK       | 108     | 54        | 23.05                          | 23.08                             | 23.04                           |                        | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 22.19                          | 22.22                             | 22.16                           | 23.0                   | 1.0         |  |
| 40              | QPSK       | 216     | 0         | 22.12                          | 22.18                             | 22.15                           |                        |             |  |
| 40              | 16QAM      | 1       | 1         | 22.34                          | 22.36                             | 22.32                           | 23.0                   | 1.0         |  |
| 40              | 64QAM      | 1       | 1         | 20.78                          | 20.86                             | 20.84                           | 21.5                   | 2.5         |  |
| 40              | 256QAM     | 1       | 1         | 18.80                          | 18.82                             | 18.77                           | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 503000                         | 507000                            | 511000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.93                          | 23.03                             | 22.96                           | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                         | 507000                            | 511000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 25              | QPSK       | 1       | 1         | 22.92                          | 23.06                             | 22.92                           | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                         | 507000                            | 512000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.93                          | 22.89                             | 22.87                           | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                         | 507000                            | 512000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.96                          | 23.06                             | 22.97                           | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                         | 507000                            | 513000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.97                          | 23.00                             | 22.91                           | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                         | 507000                            | 513000                          | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.92                          | 23.03                             | 22.94                           | 24.0                   | 0.0         |  |

| n12_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>141300 | Power Middle<br>Ch. F Freq.<br>141500 | Power High<br>Ch. F Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 708.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                              | 22.90                                 | 22.84                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                              | 22.96                                 | 22.91                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                              | 22.93                                 | 22.83                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                              | 22.79                                 | 22.77                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                              | 22.75                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                              | 22.88                                 | 22.80                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.01                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 22.85                              | 22.92                                 | 22.83                               |                        |             |
| 15              | QPSK       | 1       | 77        | 22.83                              | 22.93                                 | 22.91                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.79                              | 22.86                                 | 22.79                               |                        |             |
| 15              | QPSK       | 36      | 22        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.70                              | 22.78                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         | 22.84                              | 22.90                                 | 22.87                               | 24.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         | 22.95                              | 22.91                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         | 21.43                              | 21.51                                 | 21.49                               | 22.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         | 19.51                              | 19.55                                 | 19.49                               | 20.5                   | 3.5         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.88                              | 22.99                                 | 22.86                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.19                              | 22.34                                 | 22.87                               | 24.0                   | 0.0         |

| n12_Ant 1       |            |         |           |                                     |                                        |                                      |                        |             |
|-----------------|------------|---------|-----------|-------------------------------------|----------------------------------------|--------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>141300 | Power Middle<br>Ch. F. Freq.<br>141500 | Power High<br>Ch. F. Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                               | 707.5                                  | 708.5                                | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                     |                                        |                                      |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 23.34                               | 23.35                                  | 23.31                                |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 23.33                               | 23.36                                  | 23.31                                |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 23.31                               | 23.32                                  | 23.31                                | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.89                               | 22.91                                  | 22.84                                | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 22        | 23.15                               | 23.17                                  | 23.15                                | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.82                               | 22.91                                  | 22.87                                | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.95                               | 22.98                                  | 22.93                                | 23.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 23.35                               | 23.37                                  | 23.35                                | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 23.19                               | 23.28                                  | 23.24                                |                        |             |
| 15              | QPSK       | 1       | 77        | 23.34                               | 23.36                                  | 23.34                                |                        |             |
| 15              | QPSK       | 36      | 0         | 22.40                               | 22.46                                  | 22.44                                |                        |             |
| 15              | QPSK       | 36      | 22        | 23.19                               | 23.23                                  | 23.16                                | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.26                               | 22.35                                  | 22.30                                | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.49                               | 22.52                                  | 22.45                                | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         | 22.97                               | 22.81                                  | 22.51                                | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 21.05                               | 21.11                                  | 21.08                                | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 19.08                               | 19.18                                  | 19.17                                | 19.5                   | 4.5         |
| Channel         |            |         |           | 140300                              | 141500                                 | 142700                               | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                                 | 707.5                                  | 711                                  | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 23.32                               | 23.29                                  | 23.26                                | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                              | 141500                                 | 142700                               | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                               | 707.5                                  | 713.5                                | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.30                               | 23.33                                  | 23.27                                | 24.0                   | 0.0         |

| n14_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>159600 | Power Middle<br>Ch. F Freq.<br>159800 | Power High<br>Ch. F Freq.<br>160000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 710                                |                                       |                                     | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         |                                    | 22.78                                 |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        |                                    | 22.76                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 0         |                                    | 22.84                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        |                                    | 22.89                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        |                                    | 22.83                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         |                                    | 22.84                                 |                                     |                        |             |
| 10              | QPSK       | 1       | 1         |                                    | 22.82                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | QPSK       | 1       | 50        |                                    | 22.72                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 0         |                                    | 22.85                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 14        |                                    | 22.71                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 50      | 0         |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | 16QAM      | 1       | 1         |                                    | 22.80                                 |                                     | 24.0                   | 0.0         |
| 10              | 64QAM      | 1       | 1         |                                    | 21.57                                 |                                     | 22.5                   | 1.5         |
| 10              | 256QAM     | 1       | 1         |                                    | 19.45                                 |                                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 159100                             | 159800                                | 159100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 700.5                              | 710                                   | 705.5                               | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.74                              | 22.75                                 | 22.75                               | 24.0                   | 0.0         |



n14\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|-----------------|------------|---------|-----------|--------------------------|---------------------------|---------------------------|------------------------|-------------|-----|
| Channel         |            |         |           | 159600                   |                           |                           |                        |             |     |
| Frequency (MHz) |            |         |           | 793                      |                           |                           |                        |             |     |
| 10              | Pl2 BPSK   | 1       | 1         |                          | 23.15                     |                           | 24.0                   | 0.0         |     |
| 10              | Pl2 BPSK   | 1       | 26        |                          | 23.16                     |                           |                        |             |     |
| 10              | Pl2 BPSK   | 1       | 59        |                          | 23.16                     |                           |                        |             |     |
| 10              | Pl2 BPSK   | 25      | 0         |                          | 23.04                     |                           | 24.0                   | 0.0         |     |
| 10              | Pl2 BPSK   | 25      | 14        |                          | 23.05                     |                           | 24.0                   | 0.0         |     |
| 10              | Pl2 BPSK   | 25      | 27        |                          | 22.96                     |                           |                        |             |     |
| 10              | Pl2 BPSK   | 50      | 0         |                          | 23.00                     |                           | 24.0                   | 0.0         |     |
| 10              | QPSK       | 1       | 1         |                          | 23.21                     |                           |                        |             |     |
| 10              | QPSK       | 1       | 26        |                          | 23.18                     |                           | 24.0                   | 0.0         |     |
| 10              | QPSK       | 1       | 59        |                          | 23.16                     |                           |                        |             |     |
| 10              | QPSK       | 25      | 0         |                          | 22.55                     |                           | 23.5                   | 0.5         |     |
| 10              | QPSK       | 25      | 14        |                          | 23.11                     |                           | 24.0                   | 0.0         |     |
| 10              | QPSK       | 25      | 27        |                          | 22.53                     |                           | 23.5                   | 0.5         |     |
| 10              | QPSK       | 50      | 0         |                          | 22.51                     |                           |                        |             |     |
| 10              | 16QAM      | 1       | 1         |                          | 22.61                     |                           | 23.5                   | 0.5         |     |
| 10              | 64QAM      | 1       | 1         |                          | 21.33                     |                           | 22.0                   | 2.0         |     |
| 10              | 256QAM     | 1       | 1         |                          | 19.15                     |                           | 20.0                   | 4.0         |     |
| Channel         |            |         |           | 159100                   | 159100                    |                           |                        |             |     |
| Frequency (MHz) |            |         |           | 790.5                    | 793                       | 795.5                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| 5               | QPSK       | 1       | 1         |                          | 23.12                     | 23.14                     | 23.08                  | 24.0        | 0.0 |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>374000 | Power Middle<br>Ch. / Freq.<br>375500 | Power High<br>Ch. / Freq.<br>377000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 23.16                              | 23.23                                 | 23.18                               |                        |             |
| 40              | Pl2 BPSK   | 1       | 108       | 23.25                              | 23.33                                 | 23.23                               |                        | 0.0         |
| 40              | Pl2 BPSK   | 1       | 214       | 23.22                              | 23.28                                 | 23.24                               |                        |             |
| 40              | Pl2 BPSK   | 108     | 0         | 22.81                              | 22.89                                 | 22.82                               | 23.5                   | 0.5         |
| 40              | Pl2 BPSK   | 108     | 54        | 23.11                              | 23.18                                 | 23.08                               | 24.0                   |             |
| 40              | Pl2 BPSK   | 108     | 108       | 22.90                              | 22.99                                 | 22.94                               | 23.5                   | 0.5         |
| 40              | Pl2 BPSK   | 216     | 0         | 22.99                              | 23.01                                 | 22.93                               |                        |             |
| 40              | QPSK       | 1       | 1         | 23.26                              | 23.36                                 | 23.34                               |                        |             |
| 40              | QPSK       | 1       | 108       | 23.18                              | 23.25                                 | 23.18                               | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 23.25                              | 23.32                                 | 23.22                               |                        |             |
| 40              | QPSK       | 108     | 0         | 22.29                              | 22.38                                 | 22.32                               | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 23.15                              | 23.25                                 | 23.16                               | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.39                              | 22.43                                 | 22.38                               |                        |             |
| 40              | QPSK       | 216     | 0         | 22.41                              | 22.43                                 | 22.39                               | 23.0                   | 1.0         |
| 40              | 16QAM      | 1       | 1         | 22.38                              | 22.45                                 | 22.35                               | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.89                              | 20.96                                 | 20.90                               | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 19.11                              | 19.14                                 | 19.09                               | 19.5                   | 4.5         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 35              | QPSK       | 1       | 1         | 373500<br>1867.5                   | 376500<br>1882.5                      | 379500<br>1897.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 30              | QPSK       | 1       | 1         | 373000<br>1865                     | 376500<br>1882.5                      | 377000<br>1900                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 23.22                              | 23.33                                 | 23.28                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 25              | QPSK       | 1       | 1         | 372500<br>1862.5                   | 376500<br>1882.5                      | 377000<br>1902.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 23.25                              | 23.32                                 | 23.30                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 20              | QPSK       | 1       | 1         | 372000<br>1860                     | 376500<br>1882.5                      | 381000<br>1905                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 23.26                              | 23.29                                 | 23.30                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | QPSK       | 1       | 1         | 371500<br>1857.5                   | 376500<br>1882.5                      | 381500<br>1907.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 23.26                              | 23.34                                 | 23.28                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | QPSK       | 1       | 1         | 371000<br>1855                     | 376500<br>1882.5                      | 382000<br>1910                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 23.23                              | 23.28                                 | 23.25                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 5               | QPSK       | 1       | 1         | 370500<br>1852.5                   | 376500<br>1882.5                      | 382500<br>1912.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 23.23                              | 23.34                                 | 23.28                               | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1870                     | 1882.5                      | 1895                      |                        |             |
| Frequency (MHz) |            |         |           | 22.64                    | 22.72                       | 22.84                     |                        |             |
| 40              | P2 BPSK    | 1       | 1         | 22.64                    | 22.72                       | 22.84                     |                        | 0.0         |
| 40              | P2 BPSK    | 1       | 214       | 22.46                    | 22.47                       | 22.39                     |                        |             |
| 40              | P2 BPSK    | 108     | 0         | 22.12                    | 22.19                       | 22.18                     | 23.5                   | 0.0         |
| 40              | P2 BPSK    | 108     | 54        | 22.47                    | 22.53                       | 22.45                     | 24.0                   |             |
| 40              | P2 BPSK    | 108     | 108       | 22.15                    | 22.18                       | 22.12                     | 23.5                   | 0.0         |
| 40              | P2 BPSK    | 216     | 0         | 22.10                    | 22.14                       | 22.12                     |                        |             |
| 40              | QPSK       | 1       | 1         | 22.72                    | 22.78                       | 22.84                     |                        |             |
| 40              | QPSK       | 1       | 108       | 22.68                    | 22.73                       | 22.68                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 22.42                    | 22.49                       | 22.39                     |                        |             |
| 40              | QPSK       | 108     | 0         | 21.63                    | 21.64                       | 21.61                     | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 22.47                    | 22.53                       | 22.44                     | 24.0                   |             |
| 40              | QPSK       | 108     | 108       | 21.54                    | 21.62                       | 21.60                     | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 21.63                    | 21.64                       | 21.63                     | 23.0                   | 1.0         |
| 40              | 16QAM      | 1       | 1         | 21.91                    | 21.94                       | 21.92                     | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.46                    | 20.48                       | 20.43                     | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 18.36                    | 18.43                       | 18.36                     | 19.5                   | 4.5         |
| Channel         |            |         |           | 373500                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1897.5                    |                        |             |
| 35              | QPSK       | 1       | 1         | 22.63                    | 22.71                       | 22.81                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 373000                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1900                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.62                    | 22.63                       | 22.59                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 372500                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1902.5                    |                        |             |
| 25              | QPSK       | 1       | 1         | 22.63                    | 22.70                       | 22.60                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    |                        |             |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | QPSK       | 1       | 1         | 22.62                    | 22.69                       | 22.63                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376500                      | 381500                    |                        |             |
| Frequency (MHz) |            |         |           | 1857.5                   | 1882.5                      | 1907.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 22.56                    | 22.68                       | 22.62                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    |                        |             |
| Frequency (MHz) |            |         |           | 1855                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.59                    | 22.71                       | 22.61                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    |                        |             |
| Frequency (MHz) |            |         |           | 1852.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 22.63                    | 22.69                       | 22.55                     | 24.0                   | 0.0         |



| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.96                        | 23.02                           | 22.97                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.92                        | 23.00                           | 22.98                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         | 23.5                | 0.5      |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.91                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.82                           | 22.98                         | 23.5                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 19.13                        | 19.17                           | 19.14                         | 20.0                | 4.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |

| n26(FCC)_Ant 1  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 23.07                        | 23.10                           | 23.08                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 23.04                        | 23.12                           | 23.03                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 23.23                        | 23.26                           | 23.20                         |                     |          |
| 20              | Pl2 BPSK   | 50      | 0         | 22.80                        | 22.82                           | 22.74                         | 23.5                | 0.5      |
| 20              | Pl2 BPSK   | 50      | 28        | 23.16                        | 23.22                           | 23.13                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.91                        | 22.99                           | 22.96                         | 23.5                | 0.5      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.87                        | 22.90                           | 22.92                         | 23.5                | 0.5      |
| 20              | QPSK       | 1       | 1         | 23.25                        | 23.30                           | 23.26                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 23.07                        | 23.13                           | 23.06                         |                     |          |
| 20              | QPSK       | 1       | 104       | 23.23                        | 23.26                           | 23.22                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.23                        | 22.33                           | 22.26                         | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 28        | 23.18                        | 23.25                           | 23.21                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.42                        | 22.47                           | 22.44                         | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.38                        | 22.43                           | 22.39                         | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.45                        | 22.46                           | 22.45                         | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.89                        | 20.95                           | 20.94                         | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.78                        | 18.88                           | 18.86                         | 19.5                | 4.5      |
| Channel         |            |         |           | 164300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.15                        | 23.25                           | 23.16                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.22                        | 23.21                           | 23.21                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.17                        | 23.20                           | 23.23                         | 24.0                | 0.0      |

| n30_Ant 9       |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 460000 | Power Middle Ch. / Freq. 462500 | Power High Ch. / Freq. 465000 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2310                         |                                 |                               | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 22.78                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 0         | 22.86                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 14        | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 27        | 22.67                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 50      | 0         | 22.72                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.90                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 22.88                        |                                 |                               |                     |          |
| 10              | QPSK       | 1       | 50        | 22.86                        |                                 |                               |                     |          |
| 10              | QPSK       | 26      | 0         | 22.81                        |                                 |                               |                     |          |
| 10              | QPSK       | 26      | 14        | 22.75                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 26      | 27        | 22.71                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 22.78                        |                                 |                               | 24.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 22.05                        |                                 |                               | 22.5                | 1.5      |
| 10              | 256QAM     | 1       | 1         | 19.86                        |                                 |                               | 20.5                | 3.5      |
| Channel         |            |         |           | 461500                       | 462500                          | 463500                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                       | 2310                            | 2312.5                        | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.77                        | 22.80                           | 22.78                         | 24.0                | 0.0      |



| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 22.08                           |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 22.12                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 22.08                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 21.59                           |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 22.10                           |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 21.54                           |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 21.63                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 22.18                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 22.14                           |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 22.03                           |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.15                           |                        | 23.0                | 1.0      |
| 10              | QPSK       | 25      | 14        |                       | 22.10                           |                        | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        |                       | 21.05                           |                        | 23.0                | 1.0      |
| 10              | QPSK       | 50      | 0         |                       | 21.09                           |                        |                     |          |
| 10              | 16QAM      | 1       | 1         |                       | 21.17                           |                        | 23.0                | 1.0      |
| 10              | 64QAM      | 1       | 1         |                       | 19.85                           |                        | 21.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         |                       | 17.63                           |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 22.06                 | 22.11                           | 22.08                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                     | 1745                        | 1760                      | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                     | 1745                        | 1760                      |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 23.10                    | 23.15                       | 23.08                     |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 23.20                    | 23.26                       | 23.20                     |                        |             |
| 40              | PlZ BPSK   | 1       | 214       | 23.24                    | 23.26                       | 23.16                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 0         | 23.15                    | 23.21                       | 23.17                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 54        | 23.21                    | 23.25                       | 23.17                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 108       | 23.18                    | 23.23                       | 23.21                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 216     | 0         | 23.11                    | 23.20                       | 23.18                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 23.25                    | 23.31                       | 23.30                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 23.14                    | 23.18                       | 23.12                     |                        |             |
| 40              | QPSK       | 1       | 214       | 23.21                    | 23.26                       | 23.24                     |                        |             |
| 40              | QPSK       | 108     | 0         | 22.75                    | 22.85                       | 22.83                     |                        |             |
| 40              | QPSK       | 108     | 54        | 23.21                    | 23.26                       | 23.25                     | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.95                    | 22.97                       | 22.87                     | 24.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 23.05                    | 23.11                       | 23.06                     | 24.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 23.03                    | 23.05                       | 23.03                     | 24.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 21.48                    | 21.51                       | 21.48                     | 22.5                   | 1.5         |
| 40              | 256QAM     | 1       | 1         | 19.39                    | 19.46                       | 19.41                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1727.5                   | 1745                        | 1762.5                    | 24.0                   | 0.0         |
| 35              | QPSK       | 1       | 1         | 23.21                    | 23.26                       | 23.27                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 23.23                    | 23.27                       | 23.21                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 23.22                    | 23.25                       | 23.24                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 23.18                    | 23.23                       | 23.22                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 345000                      | 354000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 23.18                    | 23.22                       | 23.26                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 23.18                    | 23.28                       | 23.21                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                   | 345000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 23.22                    | 23.23                       | 23.22                     | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                     | 1745                        | 1760                      | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                     | 1745                        | 1760                      |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 22.90                    | 22.96                       | 22.91                     |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 22.86                    | 22.95                       | 22.89                     |                        |             |
| 40              | PlZ BPSK   | 1       | 214       | 22.91                    | 22.92                       | 22.84                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 0         | 22.91                    | 22.97                       | 22.95                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 54        | 22.96                    | 23.05                       | 22.95                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 108       | 22.95                    | 23.04                       | 22.99                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 216     | 0         | 22.99                    | 23.01                       | 22.91                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 23.00                    | 23.08                       | 23.04                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 22.96                    | 23.05                       | 22.88                     |                        |             |
| 40              | QPSK       | 1       | 214       | 22.89                    | 22.95                       | 22.88                     |                        |             |
| 40              | QPSK       | 108     | 0         | 22.37                    | 22.45                       | 22.35                     |                        |             |
| 40              | QPSK       | 108     | 54        | 22.87                    | 22.75                       | 22.81                     | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.38                    | 22.44                       | 22.36                     | 23.5                   | 0.5         |
| 40              | QPSK       | 216     | 0         | 22.41                    | 22.45                       | 22.37                     | 23.5                   | 0.5         |
| 40              | 16QAM      | 1       | 1         | 22.81                    | 22.71                       | 22.84                     | 23.5                   | 0.5         |
| 40              | 64QAM      | 1       | 1         | 21.10                    | 21.16                       | 21.13                     | 22.0                   | 2.0         |
| 40              | 256QAM     | 1       | 1         | 19.07                    | 19.13                       | 19.05                     | 20.0                   | 4.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 35              | QPSK       | 1       | 1         | 22.95                    | 23.04                       | 22.97                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 22.94                    | 23.03                       | 22.94                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 22.94                    | 23.03                       | 22.95                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 22.92                    | 22.99                       | 22.96                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 345000                      | 354000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 22.91                    | 23.00                       | 22.94                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 22.98                    | 23.03                       | 22.91                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                   | 345000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 22.90                    | 23.04                       | 22.95                     | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1702.5                   |                             |                           | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1702.5                   |                             |                           |                        |             |
| 15              | PlZ BPSK   | 1       | 1         |                          |                             | 22.88                     |                        |             |
| 15              | PlZ BPSK   | 1       | 40        |                          |                             | 22.95                     |                        |             |
| 15              | PlZ BPSK   | 1       | 77        |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 0         |                          |                             | 22.75                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 22        |                          |                             | 22.76                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 43        |                          |                             | 22.73                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 75      | 0         |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         |                          |                             | 22.97                     | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        |                          |                             | 22.92                     |                        |             |
| 15              | QPSK       | 1       | 77        |                          |                             | 22.81                     |                        |             |
| 15              | QPSK       | 36      | 0         |                          |                             | 22.78                     |                        |             |
| 15              | QPSK       | 36      | 22        |                          |                             | 22.82                     | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        |                          |                             | 22.73                     | 24.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         |                          |                             | 22.85                     | 24.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         |                          |                             | 21.75                     | 22.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         |                          |                             | 19.65                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 345000                   | 345000                      | 341000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1700                     |                             | 1705                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.84                    | 22.95                       | 22.86                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 339500                   | 340500                      | 341500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 22.98                    | 22.99                       | 22.99                     | 24.0                   | 0.0         |

| n70_Ant 1       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 1702.5                   |                        |                     |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.28                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 1       | 1         |                       | 23.30                    |                        | 24.0                | 0.0                 |          |
| 15              | Pl2 BPSK   | 1       | 40        |                       | 23.30                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 1       | 77        |                       | 23.25                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 36      | 0         |                       | 22.83                    |                        | 23.5                | 0.5                 |          |
| 15              | Pl2 BPSK   | 36      | 22        |                       | 23.15                    |                        | 24.0                | 0.0                 |          |
| 15              | Pl2 BPSK   | 36      | 43        |                       | 22.72                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 75      | 0         |                       | 22.75                    |                        | 23.5                | 0.5                 |          |
| 15              | QPSK       | 1       | 1         |                       | 23.36                    |                        |                     |                     |          |
| 15              | QPSK       | 1       | 40        |                       | 23.30                    |                        | 24.0                | 0.0                 |          |
| 15              | QPSK       | 1       | 77        |                       | 23.25                    |                        |                     |                     |          |
| 15              | QPSK       | 36      | 0         |                       | 22.36                    |                        | 23.0                | 1.0                 |          |
| 15              | QPSK       | 36      | 22        |                       | 23.21                    |                        | 24.0                | 0.0                 |          |
| 15              | QPSK       | 36      | 43        |                       | 22.23                    |                        |                     |                     |          |
| 15              | QPSK       | 75      | 0         |                       | 22.22                    |                        | 23.0                | 1.0                 |          |
| 15              | 16QAM      | 1       | 1         |                       | 22.64                    |                        | 23.0                | 1.0                 |          |
| 15              | 64QAM      | 1       | 1         |                       | 21.29                    |                        | 21.5                | 2.5                 |          |
| 15              | 256QAM     | 1       | 1         |                       | 19.03                    |                        | 19.5                | 4.5                 |          |
| Channel         |            |         |           |                       | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB)            |          |
| Frequency (MHz) |            |         |           |                       | 1700                     | 1705                   |                     |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.28                    | 23.28                  | 23.22               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 339500                   | 340500                 | 341500              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 1699.5                   | 1702.5                 | 1707.5              |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 23.23                    | 23.33                  | 23.27               | 24.0                | 0.0      |

| n70_Ant 0       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 678                      | 680.5                  | 683                 |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.05                    | 23.07                  | 22.98               |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         |                       | 22.59                    | 22.60                  | 22.59               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       |                       | 22.63                    | 22.68                  | 22.65               |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         |                       | 22.65                    | 22.72                  | 22.69               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        |                       | 22.65                    | 22.74                  | 22.66               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        |                       | 22.46                    | 22.51                  | 22.49               |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         |                       | 22.66                    | 22.68                  | 22.62               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         |                       | 23.06                    | 23.12                  | 23.06               |                     |          |
| 30              | QPSK       | 1       | 80        |                       | 22.64                    | 22.65                  | 22.64               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       |                       | 22.66                    | 22.72                  | 22.67               |                     |          |
| 30              | QPSK       | 80      | 0         |                       | 22.66                    | 22.73                  | 22.71               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        |                       | 22.68                    | 22.75                  | 22.72               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        |                       | 22.38                    | 22.48                  | 22.39               |                     |          |
| 30              | QPSK       | 160     | 0         |                       | 22.66                    | 22.71                  | 22.67               | 24.0                | 0.0      |
| 30              | 16QAM      | 1       | 1         |                       | 22.99                    | 23.02                  | 22.95               | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         |                       | 22.01                    | 22.07                  | 22.04               | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         |                       | 20.07                    | 20.14                  | 20.09               | 20.5                | 3.5      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 137100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 675.5                    | 680.5                  | 685.5               |                     |          |
| 25              | QPSK       | 1       | 1         |                       | 23.06                    | 23.02                  | 22.98               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134600                   | 136100                 | 137600              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 673                      | 680.5                  | 686                 |                     |          |
| 20              | QPSK       | 1       | 1         |                       | 23.02                    | 23.04                  | 23.02               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 138100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 670.5                    | 680.5                  | 690.5               |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 22.98                    | 23.05                  | 22.95               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133200                   | 134100                 | 135000              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 668                      | 680.5                  | 693                 |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.02                    | 23.02                  | 23.00               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 136100                 | 139100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 664.5                    | 680.5                  | 695.5               |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 22.98                    | 23.08                  | 22.95               | 24.0                | 0.0      |

| n71_Ant 1       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 678                      | 680.5                  | 683                 |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.05                    | 23.07                  | 22.98               |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         |                       | 22.02                    | 22.08                  | 22.90               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       |                       | 22.85                    | 22.89                  | 22.83               |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         |                       | 22.83                    | 22.91                  | 22.75               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        |                       | 22.92                    | 22.95                  | 22.79               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        |                       | 22.86                    | 22.89                  | 22.69               |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         |                       | 22.94                    | 23.01                  | 22.83               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         |                       | 23.06                    | 23.30                  | 23.15               |                     |          |
| 30              | QPSK       | 1       | 80        |                       | 22.93                    | 23.02                  | 22.86               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       |                       | 22.93                    | 22.95                  | 22.83               |                     |          |
| 30              | QPSK       | 80      | 0         |                       | 22.99                    | 22.68                  | 22.54               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        |                       | 22.90                    | 22.96                  | 22.80               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        |                       | 22.52                    | 22.55                  | 22.35               |                     |          |
| 30              | QPSK       | 160     | 0         |                       | 22.94                    | 22.96                  | 22.97               | 24.0                | 0.0      |
| 30              | 16QAM      | 1       | 1         |                       | 22.90                    | 22.98                  | 22.84               | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         |                       | 21.38                    | 21.43                  | 21.26               | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         |                       | 19.39                    | 19.42                  | 19.30               | 20.5                | 3.5      |
| Channel         |            |         |           |                       | 135100                   | 136100                 | 137100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 673                      | 680.5                  | 686                 |                     |          |
| 25              | QPSK       | 1       | 1         |                       | 23.18                    | 23.27                  | 23.09               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134600                   | 136100                 | 137600              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 671                      | 680.5                  | 686                 |                     |          |
| 20              | QPSK       | 1       | 1         |                       | 23.20                    | 23.24                  | 23.06               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 138100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 670.5                    | 680.5                  | 690.5               |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 23.26                    | 23.27                  | 23.09               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133200                   | 134100                 | 135000              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 666                      | 680.5                  | 693                 |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.18                    | 23.24                  | 23.05               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 136100                 | 139100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 664.5                    | 680.5                  | 695.5               |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 23.23                    | 23.23                  | 23.05               | 24.0                | 0.0      |



Full&amp;Default Power Mode for Head

| FCC_n41_Ant 1   |            |         |           |                 |                    |                  |                     |          |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |  |
| Channel         |            |         |           | 506000          | 518988             | 526000           |                     |          |  |
| Frequency (MHz) |            |         |           | 2548.01         | 2592.99            | 2640             |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 21.84           | 21.89              | 21.63            | 23.0                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 137       | 21.81           | 21.88              | 21.62            |                     |          |  |
| 100             | P12 BPSK   | 1       | 271       | 21.81           | 21.87              | 21.64            |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 21.81           | 21.87              | 21.64            | 23.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 69        | 21.89           | 21.82              | 21.64            |                     |          |  |
| 100             | P12 BPSK   | 135     | 138       | 21.78           | 21.88              | 21.62            |                     |          |  |
| 100             | P12 BPSK   | 270     | 0         | 21.83           | 21.84              | 21.66            | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 21.53           | 21.97              | 21.77            |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.89           | 21.85              | 21.76            |                     |          |  |
| 100             | QPSK       | 1       | 271       | 21.84           | 21.90              | 21.88            | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 0         | 21.78           | 21.89              | 21.71            |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.85           | 21.95              | 21.76            |                     |          |  |
| 100             | QPSK       | 135     | 138       | 21.75           | 21.88              | 21.72            | 23.0                | 0.0      |  |
| 100             | QPSK       | 270     | 0         | 21.78           | 21.93              | 21.71            |                     |          |  |
| 100             | 16QAM      | 1       | 1         | 21.82           | 21.92              | 21.76            |                     |          |  |
| 100             | 64QAM      | 1       | 1         | 21.80           | 21.92              | 21.66            | 22.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.91           | 20.86              | 20.83            |                     |          |  |
| Channel         |            |         |           | 508200          | 518988             | 526996           |                     |          |  |
| Frequency (MHz) |            |         |           | 2541            | 2592.99            | 2644.98          | Tune-up limit (dBm) |          |  |
| 90              | QPSK       | 1       | 1         | 21.68           | 21.95              | 21.76            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 507204          | 518988             | 526998           |                     |          |  |
| Frequency (MHz) |            |         |           | 2536.02         | 2592.99            | 2648.99          |                     |          |  |
| 80              | QPSK       | 1       | 1         | 21.78           | 21.88              | 21.69            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 506202          | 518988             | 531000           |                     |          |  |
| Frequency (MHz) |            |         |           | 2631.01         | 2592.99            | 2665             |                     |          |  |
| 70              | QPSK       | 1       | 1         | 21.73           | 21.96              | 21.73            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 505200          | 518988             | 531998           |                     |          |  |
| Frequency (MHz) |            |         |           | 2526            | 2592.99            | 2659.98          |                     |          |  |
| 60              | QPSK       | 1       | 1         | 21.79           | 21.85              | 21.76            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 504204          | 518988             | 532998           |                     |          |  |
| Frequency (MHz) |            |         |           | 2517.02         | 2592.99            | 2664.99          |                     |          |  |
| 50              | QPSK       | 1       | 1         | 21.70           | 21.95              | 21.63            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 503202          | 518988             | 534000           |                     |          |  |
| Frequency (MHz) |            |         |           | 2516.01         | 2592.99            | 2670             |                     |          |  |
| 40              | QPSK       | 1       | 1         | 21.70           | 21.88              | 21.64            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502200          | 518988             | 535000           |                     |          |  |
| Frequency (MHz) |            |         |           | 2511            | 2592.99            | 2674.98          |                     |          |  |
| 30              | QPSK       | 1       | 1         | 21.76           | 21.91              | 21.76            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 501204          | 518988             | 535998           |                     |          |  |
| Frequency (MHz) |            |         |           | 2504.02         | 2592.99            | 2679.99          |                     |          |  |
| 20              | QPSK       | 1       | 1         | 21.74           | 21.82              | 21.71            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 500700          | 518988             | 536496           |                     |          |  |
| Frequency (MHz) |            |         |           | 2503.5          | 2592.99            | 2682.48          |                     |          |  |
| 15              | QPSK       | 1       | 1         | 21.75           | 21.90              | 21.71            | 23.0                | 0.0      |  |
| Channel         |            |         |           | 500202          | 518988             | 537000           |                     |          |  |
| Frequency (MHz) |            |         |           | 2501.01         | 2592.99            | 2685             |                     |          |  |
| 10              | QPSK       | 1       | 1         | 21.81           | 21.89              | 21.64            | 23.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 1 |            |         |           |                       |         |                          |                        |                     |          |                     |  |
|--------------------|------------|---------|-----------|-----------------------|---------|--------------------------|------------------------|---------------------|----------|---------------------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. |         | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |                     |  |
| Channel            |            |         |           |                       |         |                          |                        |                     |          |                     |  |
| Frequency (MHz)    |            |         |           | 506000                | 518988  | 526000                   |                        |                     |          |                     |  |
| 100                | P12 BPSK   | 1       | 1         | 24.35                 | 24.34   | 24.38                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | P12 BPSK   | 1       | 137       | 24.38                 | 24.37   | 24.36                    |                        |                     |          |                     |  |
| 100                | P12 BPSK   | 1       | 271       | 24.34                 | 24.35   | 24.42                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | P12 BPSK   | 135     | 0         | 24.31                 | 24.38   | 24.31                    |                        |                     |          |                     |  |
| 100                | P12 BPSK   | 135     | 69        | 24.26                 | 24.32   | 24.36                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | P12 BPSK   | 135     | 138       | 24.37                 | 24.37   | 24.33                    |                        |                     |          |                     |  |
| 100                | P12 BPSK   | 270     | 0         | 24.36                 | 24.43   | 24.30                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | QPSK       | 1       | 1         | 24.40                 | 24.45   | 24.43                    |                        |                     |          |                     |  |
| 100                | QPSK       | 1       | 137       | 24.26                 | 24.33   | 24.37                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | QPSK       | 1       | 271       | 24.31                 | 24.33   | 24.40                    |                        |                     |          |                     |  |
| 100                | QPSK       | 135     | 0         | 24.22                 | 24.28   | 24.28                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | QPSK       | 135     | 69        | 24.25                 | 24.42   | 24.40                    |                        |                     |          |                     |  |
| 100                | QPSK       | 135     | 138       | 24.04                 | 24.14   | 24.12                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | QPSK       | 270     | 0         | 24.33                 | 24.38   | 24.32                    |                        |                     |          |                     |  |
| 100                | 16QAM      | 1       | 1         | 24.32                 | 24.41   | 24.40                    | 26.0                   | 0.0                 |          |                     |  |
| 100                | 64QAM      | 1       | 1         | 22.84                 | 22.89   | 22.86                    |                        |                     |          |                     |  |
| 100                | 256QAM     | 1       | 1         | 20.81                 | 20.86   | 20.83                    | 22.5                   | 0.5                 |          |                     |  |
| Channel            |            |         |           | 508200                | 518988  | 526996                   | Tune-up limit (dBm)    |                     |          |                     |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99 | 2644.98                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 90                 | QPSK       | 1       | 1         | 24.31                 | 24.38   | 24.31                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 507204                | 518988  | 526998                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99 | 2648.99                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 80                 | QPSK       | 1       | 1         | 24.35                 | 24.36   | 24.31                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 506202                | 518988  | 531000                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2631.01               | 2592.99 | 2665                     | Tune-up limit (dBm)    |                     |          |                     |  |
| 70                 | QPSK       | 1       | 1         | 24.33                 | 24.34   | 24.28                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 505200                | 518988  | 531998                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2526                  | 2592.99 | 2659.98                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 60                 | QPSK       | 1       | 1         | 24.35                 | 24.30   | 24.36                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 504204                | 518988  | 532998                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2517.02               | 2592.99 | 2664.99                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 50                 | QPSK       | 1       | 1         | 24.25                 | 24.42   | 24.32                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 503202                | 518988  | 534000                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99 | 2670                     | Tune-up limit (dBm)    |                     |          |                     |  |
| 40                 | QPSK       | 1       | 1         | 24.33                 | 24.30   | 24.38                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 502200                | 518988  | 535000                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99 | 2674.98                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 30                 | QPSK       | 1       | 1         | 24.39                 | 24.31   | 24.36                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 501204                | 518988  | 535998                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2504.02               | 2592.99 | 2679.99                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 20                 | QPSK       | 1       | 1         | 24.30                 | 24.39   | 24.35                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 500700                | 518988  | 536496                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99 | 2682.48                  | Tune-up limit (dBm)    |                     |          |                     |  |
| 15                 | QPSK       | 1       | 1         | 24.36                 | 24.41   | 24.30                    | 26.0                   | 0.0                 |          |                     |  |
| Channel            |            |         |           | 500202                | 518988  | 537000                   |                        |                     |          | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99 | 2685                     | Tune-up limit (dBm)    |                     |          |                     |  |
| 10                 | QPSK       | 1       | 1         | 24.35                 | 24.33   | 24.28                    | 26.0                   | 0.0                 |          |                     |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB)            |
| Channel         |            |         |           | 50600                 | 51898                    | 53000                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI2 BPSK   | 1       | 1         | 21.22                 | 21.23                    | 21.12                  | 22.5                |
| 100             | PI2 BPSK   | 1       | 137       | 21.20                 | 21.19                    | 21.03                  |                     |
| 100             | PI2 BPSK   | 1       | 271       | 21.11                 | 21.27                    | 21.06                  | 22.5                |
| 100             | PI2 BPSK   | 135     | 0         | 21.09                 | 21.23                    | 21.15                  |                     |
| 100             | PI2 BPSK   | 135     | 69        | 21.09                 | 21.21                    | 21.13                  | 22.5                |
| 100             | PI2 BPSK   | 135     | 138       | 21.16                 | 21.29                    | 21.16                  |                     |
| 100             | PI2 BPSK   | 270     | 0         | 21.21                 | 21.32                    | 21.04                  | 22.5                |
| 100             | QPSK       | 1       | 1         | 21.23                 | 21.33                    | 21.18                  |                     |
| 100             | QPSK       | 1       | 137       | 21.19                 | 21.28                    | 21.03                  | 22.5                |
| 100             | QPSK       | 1       | 271       | 21.12                 | 21.22                    | 21.15                  |                     |
| 100             | QPSK       | 135     | 0         | 21.09                 | 21.25                    | 21.06                  | 22.5                |
| 100             | QPSK       | 135     | 69        | 21.18                 | 21.32                    | 21.17                  |                     |
| 100             | QPSK       | 135     | 138       | 21.10                 | 21.25                    | 21.07                  | 22.5                |
| 100             | QPSK       | 270     | 0         | 21.20                 | 21.28                    | 21.15                  |                     |
| 100             | 16QAM      | 1       | 1         | 21.14                 | 21.26                    | 21.06                  | 22.5                |
| 100             | 64QAM      | 1       | 1         | 21.08                 | 21.18                    | 21.07                  |                     |
| 100             | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0                |
| Channel         |            |         |           | 506200                | 518998                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.99                |                     |
| 80              | QPSK       | 1       | 1         | 21.13                 | 21.22                    | 21.16                  | 22.5                |
| Channel         |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2538.02               | 2592.99                  | 2648.99                |                     |
| 80              | QPSK       | 1       | 1         | 21.19                 | 21.25                    | 21.17                  | 22.5                |
| Channel         |            |         |           | 508200                | 518998                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | QPSK       | 1       | 1         | 21.17                 | 21.20                    | 21.12                  | 22.5                |
| Channel         |            |         |           | 509200                | 518998                   | 531998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2669.98                |                     |
| 60              | QPSK       | 1       | 1         | 21.18                 | 21.27                    | 21.05                  | 22.5                |
| Channel         |            |         |           | 504204                | 518998                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2645.99                |                     |
| 50              | QPSK       | 1       | 1         | 21.14                 | 21.28                    | 21.12                  | 22.5                |
| Channel         |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | QPSK       | 1       | 1         | 21.19                 | 21.24                    | 21.10                  | 22.5                |
| Channel         |            |         |           | 502200                | 518998                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | QPSK       | 1       | 1         | 21.14                 | 21.19                    | 21.15                  | 22.5                |
| Channel         |            |         |           | 501204                | 518998                   | 533998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | QPSK       | 1       | 1         | 21.21                 | 21.32                    | 21.13                  | 22.5                |
| Channel         |            |         |           | 500700                | 518998                   | 534998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |
| 15              | QPSK       | 1       | 1         | 21.17                 | 21.18                    | 21.15                  | 22.5                |
| Channel         |            |         |           | 500200                | 518998                   | 537000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |
| 10              | QPSK       | 1       | 1         | 21.22                 | 21.31                    | 21.14                  | 22.5                |

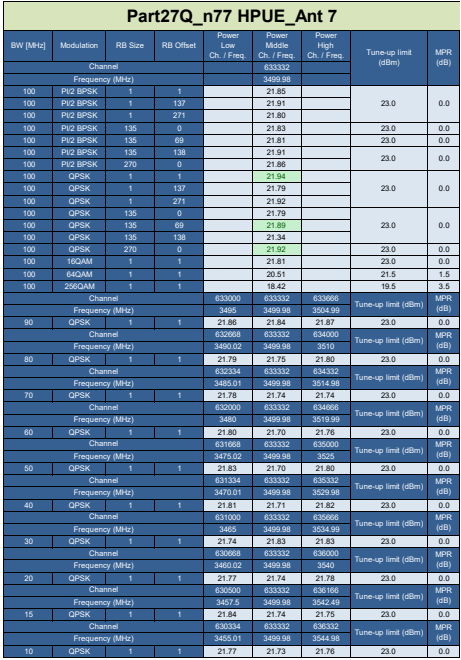


| FCC_n41 HPUE_Ant 6 |            |         |           |                       |                          |                        |                     |                     |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |  |
| Channel            |            |         |           | 50502                 | 51698                    | 52900                  | 24.5                | 0.0                 |  |
| Frequency (MHz)    |            |         |           | 2566.01               | 2662.99                  | 2640                   |                     |                     |  |
| 100                | PI2 BPSK   | 1       | 1         | 23.21                 | 23.26                    | 23.16                  |                     |                     |  |
| 100                | PI2 BPSK   | 1       | 137       | 23.21                 | 23.26                    | 23.17                  | 24.5                | 0.0                 |  |
| 100                | PI2 BPSK   | 1       | 271       | 23.33                 | 23.31                    | 23.19                  |                     |                     |  |
| 100                | PI2 BPSK   | 135     | 0         | 23.33                 | 23.26                    | 23.24                  |                     |                     |  |
| 100                | PI2 BPSK   | 135     | 69        | 23.32                 | 23.21                    | 23.21                  | 24.5                | 0.0                 |  |
| 100                | PI2 BPSK   | 135     | 138       | 23.30                 | 23.25                    | 23.14                  |                     |                     |  |
| 100                | PI2 BPSK   | 270     | 0         | 23.32                 | 23.26                    | 23.25                  |                     |                     |  |
| 100                | QPSK       | 1       | 1         | 23.35                 | 23.36                    | 23.28                  | 24.5                | 0.0                 |  |
| 100                | QPSK       | 1       | 137       | 23.27                 | 23.26                    | 23.19                  |                     |                     |  |
| 100                | QPSK       | 1       | 271       | 23.22                 | 23.21                    | 23.14                  |                     |                     |  |
| 100                | QPSK       | 135     | 0         | 23.16                 | 23.24                    | 23.06                  | 24.5                | 0.0                 |  |
| 100                | QPSK       | 135     | 69        | 23.25                 | 23.33                    | 23.17                  |                     |                     |  |
| 100                | QPSK       | 135     | 138       | 23.22                 | 23.23                    | 22.98                  |                     |                     |  |
| 100                | QPSK       | 270     | 0         | 23.13                 | 23.15                    | 22.90                  | 24.5                | 0.0                 |  |
| 100                | 16QAM      | 1       | 1         | 23.20                 | 23.30                    | 23.22                  |                     |                     |  |
| 100                | 64QAM      | 1       | 1         | 21.90                 | 21.92                    | 21.85                  |                     | 23.0                |  |
| 100                | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0                | 3.5                 |  |
| Channel            |            |         |           | 506200                | 516998                   | 529996                 |                     | Tune-up limit (dBm) |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2662.99                  | 2644.88                |                     |                     |  |
| 90                 | QPSK       | 1       | 1         | 23.22                 | 23.22                    | 23.16                  |                     | 24.5                |  |
| Channel            |            |         |           | 507204                | 516998                   | 529998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2662.99                  | 2649.99                |                     |                     |  |
| 80                 | QPSK       | 1       | 1         | 23.20                 | 23.21                    | 23.20                  |                     | 24.5                |  |
| Channel            |            |         |           | 508200                | 516998                   | 531000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2662.99                  | 2655                   |                     |                     |  |
| 70                 | QPSK       | 1       | 1         | 23.22                 | 23.24                    | 23.27                  |                     | 24.5                |  |
| Channel            |            |         |           | 509200                | 516998                   | 532998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2526                  | 2662.99                  | 2659.98                |                     |                     |  |
| 60                 | QPSK       | 1       | 1         | 23.32                 | 23.21                    | 23.19                  |                     | 24.5                |  |
| Channel            |            |         |           | 504204                | 516998                   | 532998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2511.02               | 2662.99                  | 2654.99                |                     |                     |  |
| 50                 | QPSK       | 1       | 1         | 23.21                 | 23.32                    | 23.13                  |                     | 24.5                |  |
| Channel            |            |         |           | 505002                | 516998                   | 534000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2662.99                  | 2670                   |                     |                     |  |
| 40                 | QPSK       | 1       | 1         | 23.34                 | 23.23                    | 23.19                  |                     | 24.5                |  |
| Channel            |            |         |           | 505000                | 516998                   | 535998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2662.99                  | 2674.98                |                     |                     |  |
| 30                 | QPSK       | 1       | 1         | 23.29                 | 23.22                    | 23.20                  |                     | 24.5                |  |
| Channel            |            |         |           | 501204                | 516998                   | 535998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2606.00               | 2662.99                  | 2679.99                |                     |                     |  |
| 20                 | QPSK       | 1       | 1         | 23.24                 | 23.24                    | 23.17                  |                     | 24.5                |  |
| Channel            |            |         |           | 500700                | 516998                   | 536498                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2662.99                  | 2682.48                |                     |                     |  |
| 15                 | QPSK       | 1       | 1         | 23.29                 | 23.26                    | 23.23                  |                     | 24.5                |  |
| Channel            |            |         |           | 500200                | 516998                   | 537000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2662.99                  | 2685                   |                     |                     |  |
| 10                 | QPSK       | 1       | 1         | 23.32                 | 23.26                    | 23.16                  |                     | 24.5                |  |

| Part27Q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |                     |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |  |
| Channel           |            |         |           | 633332                |                          | 3499.98                | 21.0                | 0.0                 |  |
| Frequency (MHz)   |            |         |           | 20.02                 |                          |                        |                     |                     |  |
| 100               | PI2 BPSK   | 1       | 1         | 19.98                 |                          |                        |                     |                     |  |
| 100               | PI2 BPSK   | 1       | 137       | 19.98                 |                          | 21.0                   | 0.0                 | 0.0                 |  |
| 100               | PI2 BPSK   | 1       | 271       | 19.98                 |                          |                        |                     |                     |  |
| 100               | PI2 BPSK   | 135     | 0         | 20.05                 |                          |                        |                     |                     |  |
| 100               | PI2 BPSK   | 135     | 69        | 20.02                 |                          | 21.0                   | 0.0                 | 0.0                 |  |
| 100               | PI2 BPSK   | 135     | 138       | 20.00                 |                          |                        |                     |                     |  |
| 100               | PI2 BPSK   | 270     | 0         | 19.93                 |                          |                        |                     |                     |  |
| 100               | QPSK       | 1       | 1         | 20.08                 |                          | 21.0                   | 0.0                 | 0.0                 |  |
| 100               | QPSK       | 1       | 137       | 20.02                 |                          |                        |                     |                     |  |
| 100               | QPSK       | 1       | 271       | 19.99                 |                          |                        |                     |                     |  |
| 100               | QPSK       | 135     | 0         | 20.01                 |                          | 21.0                   | 0.0                 | 0.0                 |  |
| 100               | QPSK       | 135     | 69        | 20.06                 |                          |                        |                     |                     |  |
| 100               | QPSK       | 135     | 138       | 19.99                 |                          |                        |                     |                     |  |
| 100               | QPSK       | 270     | 0         | 19.94                 |                          | 21.0                   | 0.0                 | 0.0                 |  |
| 100               | 16QAM      | 1       | 1         | 19.99                 |                          |                        |                     |                     |  |
| 100               | 64QAM      | 1       | 1         | 20.05                 |                          |                        |                     |                     |  |
| 100               | 256QAM     | 1       | 1         | 18.42                 |                          | 19.42                  | 19.5                | 1.5                 |  |
| Channel           |            |         |           | 633000                | 633332                   | 633668                 |                     | Tune-up limit (dBm) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3504.99                |                     |                     |  |
| 90                | QPSK       | 1       | 1         | 19.96                 | 20.07                    | 20.05                  |                     | 21.0                |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3510                   |                     |                     |  |
| 80                | QPSK       | 1       | 1         | 19.81                 | 19.84                    | 20.00                  |                     | 21.0                |  |
| Channel           |            |         |           | 632334                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |                     |  |
| 70                | QPSK       | 1       | 1         | 19.82                 | 19.92                    | 20.01                  |                     | 21.0                |  |
| Channel           |            |         |           | 632000                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |                     |  |
| 60                | QPSK       | 1       | 1         | 19.95                 | 19.92                    | 19.97                  |                     | 21.0                |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |                     |  |
| 50                | QPSK       | 1       | 1         | 19.93                 | 20.05                    | 19.97                  |                     | 21.0                |  |
| Channel           |            |         |           | 631332                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |                     |  |
| 40                | QPSK       | 1       | 1         | 19.81                 | 19.97                    | 19.98                  |                     | 21.0                |  |
| Channel           |            |         |           | 631000                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |                     |  |
| 30                | QPSK       | 1       | 1         | 19.82                 | 20.06                    | 19.90                  |                     | 21.0                |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |                     |  |
| 20                | QPSK       | 1       | 1         | 19.88                 | 19.93                    | 20.04                  |                     | 21.0                |  |
| Channel           |            |         |           | 630300                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |                     |  |
| 15                | QPSK       | 1       | 1         | 19.89                 | 19.96                    | 19.90                  |                     | 21.0                |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |                     |  |
| 10                | QPSK       | 1       | 1         | 19.87                 | 19.97                    | 20.04                  |                     | 21.0                |  |

| Part27Q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          | 3590                   | 21.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3590                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 19.93                 | 19.94                    | 19.82                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 19.96                 | 19.85                    | 19.95                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 19.96                 | 19.91                    | 19.86                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 19.81                 | 19.95                    | 19.95                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 19.86                 | 19.85                    | 19.87                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 138       | 19.95                 | 19.88                    | 19.87                  |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 19.83                 | 19.85                    | 19.87                  |                     |          |  |
| 100               | QPSK       | 1       | 1         | 19.90                 | 19.99                    | 19.90                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 19.89                 | 19.92                    | 19.91                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 19.82                 | 19.89                    | 19.87                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 19.83                 | 19.91                    | 19.85                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 19.94                 | 19.97                    | 19.91                  |                     |          |  |
| 100               | QPSK       | 135     | 138       | 19.85                 | 19.88                    | 19.88                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 19.83                 | 19.85                    | 19.83                  |                     |          |  |
| 100               | QAM        | 1       | 1         | 19.92                 | 19.91                    | 19.83                  |                     |          |  |
| 100               | QAM        | 1       | 1         | 19.91                 | 19.91                    | 19.86                  |                     |          |  |
| 100               | ZS16QAM    | 1       | 1         | 18.35                 | 18.44                    | 18.33                  |                     |          |  |
| Channel           |            |         |           | 660000                |                          | 3590                   | 21.0                | 1.5      |  |
| Frequency (MHz)   |            |         |           | 3590                  |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 19.92                 | 19.85                    | 19.89                  |                     |          |  |
| Channel           |            |         |           | 649334                |                          | 62696                  | 21.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3590                  |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 19.89                 | 19.92                    | 19.82                  |                     |          |  |
| Channel           |            |         |           | 649000                |                          | 630000                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725                  |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 19.85                 | 19.88                    | 19.80                  |                     |          |  |
| Channel           |            |         |           | 646666                |                          | 650332                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730                  |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 19.89                 | 19.92                    | 19.87                  |                     |          |  |
| Channel           |            |         |           | 649334                |                          | 62696                  | 21.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3725                  |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 19.94                 | 19.85                    | 19.82                  |                     |          |  |
| Channel           |            |         |           | 649000                |                          | 650000                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730                  |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 19.88                 | 19.86                    | 19.89                  |                     |          |  |
| Channel           |            |         |           | 647666                |                          | 650332                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715                  |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 19.87                 | 19.85                    | 19.92                  |                     |          |  |
| Channel           |            |         |           | 647334                |                          | 650000                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710                  |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 19.88                 | 19.91                    | 19.90                  |                     |          |  |
| Channel           |            |         |           | 647000                |                          | 650000                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.5                |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 19.92                 | 19.85                    | 19.94                  |                     |          |  |
| Channel           |            |         |           | 647000                |                          | 650000                 | 21.0                | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 19.81                 | 19.94                    | 19.92                  |                     |          |  |





| Part270_n77 HPUe_Ant 7 |                 |          |           |                     |                      |                      |                     |          |  |
|------------------------|-----------------|----------|-----------|---------------------|----------------------|----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation      | RB Size  | RB Offset | Power Low Ch / Freq | Power High Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                |                     |          |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | Pi2 BPSK | 1         | 1                   | 21.82                | 22.12                | 22.04               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | Pi2 BPSK | 1         | 137                 | 21.89                | 22.08                | 22.06               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | Pi2 BPSK | 135       | 0                   | 21.82                | 22.10                | 21.95               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | Pi2 BPSK | 135       | 69                  | 21.93                | 22.03                | 21.97               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | Pi2 BPSK | 135       | 138                 | 21.87                | 22.08                | 21.98               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 1         | 1                   | 21.95                | 22.14                | 22.07               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 1         | 137                 | 21.88                | 22.05                | 21.94               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 1         | 271                 | 21.81                | 22.07                | 22.05               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 135       | 0                   | 21.90                | 22.05                | 21.96               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 135       | 69                  | 21.93                | 22.03                | 21.95               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 135       | 138                 | 21.83                | 22.11                | 21.98               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 270       | 0                   | 21.83                | 22.05                | 21.91               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 1         | 1                   | 21.83                | 22.11                | 22.01               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     |          |  |
|                        | 100             | QPSK     | 1         | 1                   | 20.44                | 20.56                | 20.49               |          |  |
| 100                    | Channel         |          |           | 60000               | 60000                | 60000                | 21.5                | 3.5      |  |
|                        | Frequency (kHz) |          |           | 3745.02             | 3640                 | 3644.98              |                     |          |  |
|                        | 90              | QPSK     | 1         | 1                   | 21.82                | 22.09                | 22.04               |          |  |
| 90                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3745.02             | 3640                 | 3644.98              |                     | MPR (dB) |  |
|                        | 90              | QPSK     | 1         | 1                   | 21.82                | 22.09                | 22.04               |          |  |
| 80                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 80              | QPSK     | 1         | 1                   | 21.80                | 22.03                | 21.95               |          |  |
| 70                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 70              | QPSK     | 1         | 1                   | 21.82                | 22.12                | 22.04               |          |  |
| 60                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 60              | QPSK     | 1         | 1                   | 21.82                | 22.01                | 22.01               |          |  |
| 50                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 50              | QPSK     | 1         | 1                   | 21.88                | 22.00                | 22.05               |          |  |
| 40                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 40              | QPSK     | 1         | 1                   | 21.88                | 22.00                | 22.01               |          |  |
| 30                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 30              | QPSK     | 1         | 1                   | 21.81                | 22.13                | 21.92               |          |  |
| 20                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 20              | QPSK     | 1         | 1                   | 21.80                | 22.06                | 21.95               |          |  |
| 15                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 15              | QPSK     | 1         | 1                   | 21.89                | 22.05                | 22.05               |          |  |
| 10                     | Channel         |          |           | 60000               | 60000                | 60000                | 23.0                | 0.0      |  |
|                        | Frequency (kHz) |          |           | 3750                | 3640                 | 3640                 |                     | MPR (dB) |  |
|                        | 10              | QPSK     | 1         | 1                   | 21.86                | 22.06                | 21.95               |          |  |

| Part27Q n77_Ant 8 |            |         |                 |                     |                        |                      |                     |          |  |
|-------------------|------------|---------|-----------------|---------------------|------------------------|----------------------|---------------------|----------|--|
| Brw [MHz]         | Modulation | RB Size | Channel         | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 633332              | 346938                 |                      |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1               |                     | 19.84                  |                      |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 137             |                     | 19.84                  |                      | 21.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 211             |                     | 19.84                  |                      |                     |          |  |
| 100               | Pi2 BPSK   | 135     | 0               |                     | 19.89                  |                      | 21.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69              |                     | 19.82                  |                      | 21.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 136             |                     | 19.81                  |                      | 21.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 210     | 0               |                     | 19.81                  |                      |                     |          |  |
| 100               | QPSK       | 1       | 1               |                     | 19.93                  |                      |                     |          |  |
| 100               | QPSK       | 1       | 137             |                     | 19.92                  |                      | 21.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271             |                     | 19.85                  |                      |                     |          |  |
| 100               | QPSK       | 135     | 0               |                     | 19.84                  |                      |                     |          |  |
| 100               | QPSK       | 135     | 69              |                     | 19.85                  |                      | 21.0                | 0.0      |  |
| 100               | QPSK       | 135     | 136             |                     | 19.82                  |                      | 21.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0               |                     | 19.81                  |                      | 21.0                | 0.0      |  |
| 100               | QAM        | 1       | 1               |                     | 19.83                  |                      | 21.0                | 0.0      |  |
| 100               | QAM        | 1       | 1               |                     | 19.92                  |                      | 21.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1               |                     | 16.47                  |                      | 19.5                | 1.5      |  |
|                   |            |         | Channel         | 633300              | 633332                 | 633666               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 3465                | 346598                 | 350439               | Tune-up limit (dBm) |          |  |
| 90                | QPSK       | 1       | 1               | 19.81               | 19.81                  | 19.87                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 632666              | 633332                 | 634000               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 346212              | 346938                 | 351664               | Tune-up limit (dBm) |          |  |
| 80                | QPSK       | 1       | 1               | 19.69               | 19.73                  | 19.80                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 632434              | 633132                 | 634332               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 345911              | 346938                 | 351664               | Tune-up limit (dBm) |          |  |
| 70                | QPSK       | 1       | 1               | 19.71               | 19.69                  | 19.77                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 632000              | 633332                 | 634666               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 3440                | 346938                 | 351639               | Tune-up limit (dBm) |          |  |
| 60                | QPSK       | 1       | 1               | 19.70               | 19.69                  | 19.80                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 631666              | 633332                 | 635000               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 347512              | 346938                 | 3525                 | Tune-up limit (dBm) |          |  |
| 50                | QPSK       | 1       | 1               | 19.67               | 19.76                  | 19.80                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 631232              | 633332                 | 635332               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 347411              | 346598                 | 352539               | Tune-up limit (dBm) |          |  |
| 40                | QPSK       | 1       | 1               | 19.69               | 19.71                  | 19.79                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 631000              | 633332                 | 636666               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 3465                | 346938                 | 354339               | Tune-up limit (dBm) |          |  |
| 30                | QPSK       | 1       | 1               | 19.66               | 19.74                  | 19.82                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 630666              | 633332                 | 638000               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 345012              | 346938                 | 3540                 | Tune-up limit (dBm) |          |  |
| 20                | QPSK       | 1       | 1               | 19.71               | 19.73                  | 19.76                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 630500              | 633332                 | 639166               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 34515               | 346938                 | 354249               | Tune-up limit (dBm) |          |  |
| 15                | QPSK       | 1       | 1               | 19.74               | 19.76                  | 19.72                | 21.0                | 0.0      |  |
|                   |            |         | Channel         | 630232              | 633332                 | 639500               |                     | MPR (dB) |  |
|                   |            |         | Frequency (MHz) | 345511              | 346938                 | 354439               | Tune-up limit (dBm) |          |  |
| 10                | QPSK       | 1       | 1               | 19.70               | 19.69                  | 19.77                | 21.0                | 0.0      |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 655000                | 660000                   | 660000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 19.30                 | 19.37                    | 19.33                  | 21.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 19.25                 | 19.44                    | 19.19                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 19.29                 | 19.41                    | 19.30                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 19.25                 | 19.40                    | 19.28                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 19.29                 | 19.42                    | 19.22                  | 21.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 19.28                 | 19.38                    | 19.22                  | 21.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 19.21                 | 19.44                    | 19.29                  |                     |          |
| 100             | QPSK       | 1       | 1         | 19.30                 | 19.47                    | 19.34                  | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 19.25                 | 19.41                    | 19.29                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.28                 | 19.43                    | 19.28                  |                     |          |
| 100             | QPSK       | 135     | 0         | 19.29                 | 19.34                    | 19.21                  |                     |          |
| 100             | QPSK       | 135     | 69        | 19.35                 | 19.43                    | 19.25                  | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 19.25                 | 19.36                    | 19.23                  | 21.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 19.21                 | 19.37                    | 19.21                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 19.34                 | 19.32                    | 19.23                  | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.27                 | 19.45                    | 19.25                  | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 17.90                 | 17.86                    | 17.83                  | 19.5                | 1.5      |
| Channel         |            |         |           | 649968                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.02               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 19.31                 | 19.45                    | 19.24                  | 21.0                | 0.0      |
| Channel         |            |         |           | 646334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 19.23                 | 19.32                    | 19.33                  | 21.0                | 0.0      |
| Channel         |            |         |           | 645000                | 650000                   | 650000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 19.28                 | 19.34                    | 19.26                  | 21.0                | 0.0      |
| Channel         |            |         |           | 649968                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.05               | 3840                     | 3943.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 19.29                 | 19.40                    | 19.31                  | 21.0                | 0.0      |
| Channel         |            |         |           | 646334                | 650000                   | 653966                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 19.25                 | 19.43                    | 19.29                  | 21.0                | 0.0      |
| Channel         |            |         |           | 646000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.34                 | 19.37                    | 19.21                  | 21.0                | 0.0      |
| Channel         |            |         |           | 647054                | 650000                   | 653512                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 19.27                 | 19.43                    | 19.28                  | 21.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 654966                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3959.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 19.23                 | 19.44                    | 19.20                  | 21.0                | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 654632                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 19.32                 | 19.44                    | 19.31                  | 21.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | QPSK       | 1       | 1         | 19.24                 | 19.32                    | 19.25                  | 21.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        | 23.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 21.81                 | 21.82                    | 21.84                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 21.81                 | 21.81                    | 21.82                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 21.82                 | 21.83                    | 21.84                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 21.83                 | 21.83                    | 21.84                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 21.83                 | 21.83                    | 21.83                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 21.80                 | 21.80                    | 21.80                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 21.85                 | 21.85                    | 21.85                  |                     |          |
| 100             | QPSK       | 1       | 1         | 21.93                 | 21.91                    | 21.93                  | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 21.81                 | 21.81                    | 21.82                  |                     |          |
| 100             | QPSK       | 1       | 271       | 21.91                 | 21.91                    | 21.91                  |                     |          |
| 100             | QPSK       | 135     | 0         | 21.81                 | 21.81                    | 21.81                  |                     |          |
| 100             | QPSK       | 135     | 69        | 21.91                 | 21.91                    | 21.91                  | 23.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 21.85                 | 21.85                    | 21.85                  | 23.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.90                 | 21.90                    | 21.90                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 21.91                 | 21.91                    | 21.91                  | 23.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.38                 | 20.38                    | 20.38                  | 21.5                | 1.5      |
| 100             | 256QAM     | 1       | 1         | 18.47                 | 18.47                    | 18.47                  | 19.5                | 3.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 21.83                 | 21.82                    | 21.82                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 21.75                 | 21.68                    | 21.81                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632554                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 21.75                 | 21.81                    | 21.79                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634066                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 21.81                 | 21.78                    | 21.77                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 21.78                 | 21.74                    | 21.74                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 21.72                 | 21.75                    | 21.69                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 21.72                 | 21.69                    | 21.72                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 21.81                 | 21.67                    | 21.70                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 21.79                 | 21.61                    | 21.74                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 21.77                 | 21.74                    | 21.76                  | 23.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 650000                | 650000                   | 650000                 | 23.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3790                  | 3840                     | 3900                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 21.31                 | 21.39                    | 21.40                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 21.25                 | 21.38                    | 21.39                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 21.30                 | 21.35                    | 21.35                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 21.28                 | 21.37                    | 21.29                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 21.29                 | 21.32                    | 21.38                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 21.25                 | 21.38                    | 21.37                  | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 21.32                 | 21.28                    | 21.32                  |                     |          |
| 100             | QPSK       | 1       | 1         | 21.34                 | 21.41                    | 21.34                  | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 21.30                 | 21.31                    | 21.29                  |                     |          |
| 100             | QPSK       | 1       | 271       | 21.30                 | 21.28                    | 21.33                  |                     |          |
| 100             | QPSK       | 135     | 0         | 21.22                 | 21.31                    | 21.17                  |                     |          |
| 100             | QPSK       | 135     | 69        | 21.27                 | 21.38                    | 21.25                  | 23.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 21.19                 | 21.22                    | 21.08                  | 23.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.09                 | 21.16                    | 21.10                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 21.21                 | 21.32                    | 21.33                  | 23.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.84                 | 19.91                    | 19.89                  | 21.5                | 1.5      |
| 100             | 256QAM     | 1       | 1         | 17.80                 | 17.86                    | 17.83                  | 19.5                | 3.5      |
| Channel         |            |         |           | 648668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3743.02               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 21.29                 | 21.31                    | 21.37                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 21.25                 | 21.28                    | 21.37                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 21.20                 | 21.33                    | 21.40                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 21.29                 | 21.34                    | 21.31                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 21.21                 | 21.26                    | 21.38                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 21.24                 | 21.38                    | 21.29                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3953.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 21.19                 | 21.39                    | 21.38                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 654666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3959.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 21.31                 | 21.36                    | 21.33                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 21.28                 | 21.30                    | 21.38                  | 23.0                | 0.0      |
| Channel         |            |         |           | 646700                | 650000                   | 655300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | QPSK       | 1       | 1         | 21.28                 | 21.35                    | 21.40                  | 23.0                | 0.0      |



Full&amp;Default Power Mode for Body

| n38_Ant 9       |            |         |           |                     |                        |                      |                     |          |  |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Turn-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 51000.4             | 51000.0                | 51099.6              |                     |          |  |
| Frequency (MHz) |            |         |           | 2560.02             | 2595                   | 2599.98              |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 22.83               | 22.92                  | 22.88                | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 53        | 22.81               | 22.93                  | 22.86                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 104       | 22.78               | 22.68                  | 22.85                |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 22.78               | 22.73                  | 22.63                |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 28        | 22.77               | 22.79                  | 22.77                | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 22.64               | 22.65                  | 22.63                | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 100     | 0         | 22.74               | 22.75                  | 22.66                | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.90               | 22.95                  | 22.91                | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 53        | 22.88               | 22.90                  | 22.90                |                     |          |  |
| 40              | QPSK       | 1       | 104       | 22.80               | 22.73                  | 22.69                |                     |          |  |
| 40              | QPSK       | 50      | 0         | 22.74               | 22.75                  | 22.71                |                     |          |  |
| 40              | QPSK       | 50      | 28        | 22.75               | 22.80                  | 22.75                | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 22.68               | 22.70                  | 22.63                | 24.0                | 0.0      |  |
| 40              | QPSK       | 100     | 0         | 22.74               | 22.75                  | 22.70                |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 22.81               | 22.85                  | 22.82                |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 22.67               | 22.77                  | 22.75                |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 20.58               | 20.64                  | 20.58                | 22.0                | 2.0      |  |
| Channel         |            |         |           | 51700.2             | 519000                 | 520998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2563.01             | 2595                   | 2604.99              | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 22.81               | 22.85                  | 22.89                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 516000              | 519000                 | 520000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2580.01             | 2595                   | 2610.00              | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 22.83               | 22.87                  | 22.82                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 51500.2             | 519000                 | 520000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2577.51             | 2595                   | 2612.49              | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.84               | 22.85                  | 22.87                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 51500.4             | 519000                 | 520998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2575.02             | 2595                   | 2614.98              | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.85               | 22.90                  | 22.84                | 24.0                | 0.0      |  |

| n38_Ant 1       |            |         |           |                     |                        |                      |                     |          |  |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 51600.4             | 51900.0                | 51999.6              |                     |          |  |
| Frequency (MHz) |            |         |           | 2560.02             | 2595                   | 2599.98              |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 22.79               | 22.88                  | 22.78                | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 53        | 22.94               | 22.92                  | 22.90                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 104       | 22.83               | 22.91                  | 22.86                |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 22.84               | 22.94                  | 22.93                |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 28        | 22.92               | 22.95                  | 22.91                | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 22.54               | 22.58                  | 22.52                | 23.5                | 0.5      |  |
| 40              | Pl2 BPSK   | 100     | 0         | 22.44               | 22.54                  | 22.52                | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.83               | 22.96                  | 22.95                |                     |          |  |
| 40              | QPSK       | 1       | 53        | 22.82               | 22.94                  | 22.80                |                     |          |  |
| 40              | QPSK       | 1       | 104       | 22.81               | 22.89                  | 22.84                |                     |          |  |
| 40              | QPSK       | 50      | 0         | 22.38               | 22.39                  | 22.33                | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 28        | 22.92               | 22.93                  | 22.85                |                     |          |  |
| 40              | QPSK       | 50      | 56        | 22.29               | 22.30                  | 22.26                |                     |          |  |
| 40              | QPSK       | 100     | 0         | 22.28               | 22.33                  | 22.31                |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 22.40               | 22.48                  | 22.42                | 23.0                | 1.0      |  |
| 40              | 64QAM      | 1       | 1         | 21.04               | 21.05                  | 20.98                | 21.5                | 2.5      |  |
| 40              | 256QAM     | 1       | 1         | 18.91               | 18.98                  | 18.95                | 19.5                | 4.5      |  |
| Channel         |            |         |           | 51700.2             | 51900.0                | 52099.8              | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2563.01             | 2595                   | 2604.99              | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 22.73               | 22.80                  | 22.78                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 51600.0             | 51900.0                | 52000.0              | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2580.00             | 2595                   | 2610.00              | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 22.80               | 22.88                  | 22.86                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 51500.2             | 51900.0                | 52000.0              | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2577.51             | 2595                   | 2612.49              | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.76               | 22.86                  | 22.84                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 51500.4             | 51900.0                | 52099.8              | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2575.02             | 2595                   | 2614.98              | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.80               | 22.82                  | 22.85                | 24.0                | 0.0      |  |

| FCC_n41_Ant 9   |            |         |           |                     |                        |                      |                     |          |  |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 50800.2             | 518998                 | 520000               |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01             | 2592.99                | 2600                 |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.71               | 22.81                  | 22.80                | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 137       | 22.74               | 22.85                  | 22.75                |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.58               | 22.73                  | 22.55                |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 22.60               | 22.74                  | 22.71                |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 69        | 22.67               | 22.80                  | 22.61                | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 22.61               | 22.66                  | 22.65                | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.62               | 22.65                  | 22.46                | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 22.71               | 22.97                  | 22.85                |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.66               | 22.88                  | 22.85                |                     |          |  |
| 100             | QPSK       | 1       | 271       | 22.64               | 22.73                  | 22.53                |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.67               | 22.72                  | 22.58                | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 69        | 22.68               | 22.83                  | 22.72                |                     |          |  |
| 100             | QPSK       | 135     | 138       | 22.54               | 22.61                  | 22.58                |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.53               | 22.57                  | 22.43                |                     |          |  |
| 100             | RSAM       | 1       | 1         | 22.76               | 22.86                  | 22.78                | 24.0                | 0.0      |  |
| 100             | RSAM       | 1       | 1         | 22.69               | 22.84                  | 22.79                | 24.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 22.81               | 22.88                  | 22.80                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 508200              | 518998                 | 520998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2544                | 2592.99                | 2611.99              | 24.0                | 0.0      |  |
| 90              | QPSK       | 1       | 1         | 22.70               | 22.89                  | 22.72                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 50620.2             | 518998                 | 521000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01             | 2592.99                | 2605                 | 24.0                | 0.0      |  |
| 70              | QPSK       | 1       | 1         | 22.67               | 22.92                  | 22.71                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 505200              | 518998                 | 521998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2526                | 2592.99                | 2603.98              | 24.0                | 0.0      |  |
| 60              | QPSK       | 1       | 1         | 22.65               | 22.95                  | 22.82                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 50420.4             | 518998                 | 522998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02             | 2592.99                | 2604.99              | 24.0                | 0.0      |  |
| 50              | QPSK       | 1       | 1         | 22.53               | 22.79                  | 22.81                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 503200.2            | 518998                 | 524000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01             | 2592.99                | 2610                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.62               | 22.86                  | 22.86                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 50220.2             | 518998                 | 525998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                | 2592.99                | 2614.98              | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 22.55               | 22.86                  | 22.70                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 50120.4             | 518998                 | 526998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02             | 2592.99                | 2609.99              | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 22.58               | 22.85                  | 22.71                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500700              | 518998                 | 526498               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2592.99                | 2592.48              | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.55               | 22.91                  | 22.84                | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500200.2            | 518998                 | 527000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01             | 2592.99                | 2595                 | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.67               | 22.89                  | 22.69                | 24.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                             |                                |                              |                        |             |  |
|--------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel            |            |         |           | 509202                      | 518988                         | 529600                       | 27.0                   | 0.0         |  |
| Frequency (MHz)    |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100                | PQ2 BPSK   | 1       | 1         | 25.68                       | 25.82                          | 25.72                        | 27.0                   | 0.0         |  |
| 100                | PQ2 BPSK   | 1       | 137       | 25.98                       | 25.90                          | 25.80                        |                        |             |  |
| 100                | PQ2 BPSK   | 1       | 271       | 25.93                       | 25.77                          | 25.73                        |                        |             |  |
| 100                | PQ2 BPSK   | 135     | 0         | 25.71                       | 25.69                          | 25.63                        | 26.5                   | 0.5         |  |
| 100                | PQ2 BPSK   | 135     | 69        | 25.73                       | 25.76                          | 25.71                        | 27.0                   | 0.0         |  |
| 100                | PQ2 BPSK   | 135     | 138       | 25.70                       | 25.68                          | 25.60                        | 26.5                   | 0.5         |  |
| 100                | PQ2 BPSK   | 270     | 0         | 25.70                       | 25.55                          | 25.52                        |                        |             |  |
| 100                | QPSK       | 1       | 1         | 25.00                       | 25.01                          | 25.55                        | 27.0                   | 0.0         |  |
| 100                | QPSK       | 1       | 137       | 25.75                       | 25.92                          | 25.87                        |                        |             |  |
| 100                | QPSK       | 1       | 271       | 25.98                       | 25.81                          | 25.73                        |                        |             |  |
| 100                | QPSK       | 135     | 0         | 25.92                       | 25.88                          | 25.80                        | 27.0                   | 0.0         |  |
| 100                | QPSK       | 135     | 69        | 25.75                       | 25.78                          | 25.75                        |                        |             |  |
| 100                | QPSK       | 135     | 138       | 25.73                       | 25.60                          | 25.55                        |                        |             |  |
| 100                | QPSK       | 270     | 0         | 25.68                       | 25.70                          | 25.63                        | 26.5                   | 0.5         |  |
| 100                | 16QAM      | 1       | 1         | 25.78                       | 25.88                          | 25.63                        | 27.0                   | 0.0         |  |
| 100                | 64QAM      | 1       | 1         | 24.85                       | 24.92                          | 24.82                        | 26.0                   | 1.0         |  |
| 100                | 256QAM     | 1       | 1         | 22.71                       | 22.84                          | 22.81                        | 24.0                   | 3.0         |  |
| Channel            |            |         |           | 509200                      | 518998                         | 529596                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2544                        | 2592.99                        | 2644.88                      | (dBm)                  | (dB)        |  |
| 90                 | QPSK       | 1       | 1         | 25.90                       | 25.98                          | 25.88                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 507204                      | 518998                         | 529596                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2538.02                     | 2592.98                        | 2648.99                      | (dBm)                  | (dB)        |  |
| 80                 | QPSK       | 1       | 1         | 25.83                       | 25.83                          | 25.85                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 505202                      | 518998                         | 531000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2531.01                     | 2592.99                        | 2665                         | (dBm)                  | (dB)        |  |
| 70                 | QPSK       | 1       | 1         | 25.97                       | 25.92                          | 25.90                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 503200                      | 518998                         | 531996                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2525                        | 2592.99                        | 2629.98                      | (dBm)                  | (dB)        |  |
| 60                 | QPSK       | 1       | 1         | 25.91                       | 25.97                          | 25.85                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 504204                      | 518998                         | 532998                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2531.02                     | 2592.99                        | 2664.99                      | (dBm)                  | (dB)        |  |
| 50                 | QPSK       | 1       | 1         | 25.93                       | 25.92                          | 25.84                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 503202                      | 518998                         | 534000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2516.01                     | 2592.99                        | 2670                         | (dBm)                  | (dB)        |  |
| 40                 | QPSK       | 1       | 1         | 25.90                       | 25.96                          | 25.87                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 502200                      | 518998                         | 535000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2511                        | 2592.99                        | 2674.88                      | (dBm)                  | (dB)        |  |
| 30                 | QPSK       | 1       | 1         | 25.96                       | 25.95                          | 25.83                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 501284                      | 518998                         | 535998                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2498.02                     | 2592.99                        | 2679.99                      | (dBm)                  | (dB)        |  |
| 20                 | QPSK       | 1       | 1         | 25.92                       | 25.95                          | 25.88                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 500700                      | 518998                         | 536496                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      | (dBm)                  | (dB)        |  |
| 15                 | QPSK       | 1       | 1         | 25.93                       | 25.91                          | 25.84                        | 27.0                   | 0.0         |  |
| Channel            |            |         |           | 500202                      | 518998                         | 537000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)    |            |         |           | 2501.01                     | 2592.99                        | 2685                         | (dBm)                  | (dB)        |  |
| 10                 | QPSK       | 1       | 1         | 25.97                       | 25.95                          | 25.86                        | 27.0                   | 0.0         |  |



| FCC_n41_Ant 1   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 509202                | 518998                   | 529996                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2646.01               | 2692.99                  | 2640                   |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 22.76                 | 22.86                    | 22.79                  | 24.0                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 137       | 22.84                 | 22.91                    | 22.82                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 271       | 22.76                 | 22.82                    | 22.83                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 22.67                 | 22.79                    | 22.84                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 69        | 22.83                 | 22.86                    | 22.84                  | 24.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 138       | 22.47                 | 22.66                    | 22.58                  | 24.0                | 0.0      |  |
| 100             | P12 BPSK   | 270     | 0         | 22.51                 | 22.70                    | 22.60                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 22.82                 | 22.99                    | 22.86                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.78                 | 22.93                    | 22.82                  |                     | 24.0     |  |
| 100             | QPSK       | 1       | 271       | 22.77                 | 22.82                    | 22.73                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 0         | 22.96                 | 22.77                    | 22.67                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.75                 | 22.86                    | 22.76                  |                     |          |  |
| 100             | QPSK       | 135     | 138       | 22.60                 | 22.77                    | 22.66                  |                     | 24.0     |  |
| 100             | QPSK       | 270     | 0         | 22.81                 | 22.83                    | 22.81                  | 24.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 22.98                 | 22.94                    | 22.87                  | 24.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 22.81                 | 22.96                    | 22.76                  | 24.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 20.81                 | 20.86                    | 20.83                  | 22.5                | 1.5      |  |
| Channel         |            |         |           | 509200                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2641                  | 2692.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90              | QPSK       | 1       | 1         | 22.74                 | 22.84                    | 22.76                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2636.02               | 2692.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80              | QPSK       | 1       | 1         | 22.64                 | 22.60                    | 22.60                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 502002                | 518998                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2651.01               | 2692.99                  | 2665                   | (dBm)               | (dB)     |  |
| 70              | QPSK       | 1       | 1         | 22.80                 | 22.82                    | 22.66                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 502000                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2650                  | 2692.99                  | 2659.98                | (dBm)               | (dB)     |  |
| 60              | QPSK       | 1       | 1         | 22.66                 | 22.85                    | 22.69                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2631.02               | 2692.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50              | QPSK       | 1       | 1         | 22.72                 | 22.81                    | 22.82                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 503002                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2616.01               | 2692.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40              | QPSK       | 1       | 1         | 22.74                 | 22.81                    | 22.75                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518998                   | 535796                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2611                  | 2692.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30              | QPSK       | 1       | 1         | 22.62                 | 22.97                    | 22.75                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2636.01               | 2692.99                  | 2674.99                | (dBm)               | (dB)     |  |
| 20              | QPSK       | 1       | 1         | 22.64                 | 22.86                    | 22.68                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2603.5                | 2692.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15              | QPSK       | 1       | 1         | 22.74                 | 22.87                    | 22.76                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2601.01               | 2692.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10              | QPSK       | 1       | 1         | 22.76                 | 22.86                    | 22.69                  | 24.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 1 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 509202                | 518998                   | 529990                 |                     |          |  |
| Frequency (MHz)    |            |         |           | 2646.01               | 2692.99                  | 2640                   |                     |          |  |
| 100                | P12 BPSK   | 1       | 1         | 25.38                 | 25.40                    | 25.32                  | 27.0                | 0.0      |  |
| 100                | P12 BPSK   | 1       | 137       | 25.27                 | 25.36                    | 25.28                  |                     |          |  |
| 100                | P12 BPSK   | 1       | 271       | 25.25                 | 25.33                    | 25.31                  |                     |          |  |
| 100                | P12 BPSK   | 135     | 0         | 24.72                 | 24.76                    | 24.68                  |                     | 0.5      |  |
| 100                | P12 BPSK   | 135     | 69        | 25.28                 | 25.33                    | 25.29                  | 27.0                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 138       | 24.60                 | 24.69                    | 24.67                  | 26.5                | 0.5      |  |
| 100                | P12 BPSK   | 270     | 0         | 24.57                 | 24.64                    | 24.55                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 25.43                 | 25.48                    | 25.45                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 25.27                 | 25.32                    | 25.28                  |                     | 27.0     |  |
| 100                | QPSK       | 1       | 271       | 25.14                 | 25.23                    | 25.20                  | 27.0                | 0.0      |  |
| 100                | QPSK       | 135     | 0         | 25.26                 | 25.28                    | 25.21                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 25.15                 | 25.16                    | 25.15                  |                     |          |  |
| 100                | QPSK       | 135     | 138       | 24.04                 | 24.14                    | 24.12                  |                     | 27.0     |  |
| 100                | QPSK       | 270     | 0         | 24.33                 | 24.38                    | 24.32                  | 26.0                | 1.0      |  |
| 100                | 16QAM      | 1       | 1         | 24.49                 | 24.55                    | 24.46                  | 26.0                | 1.0      |  |
| 100                | 64QAM      | 1       | 1         | 22.84                 | 22.89                    | 22.86                  | 24.5                | 2.5      |  |
| 100                | 256QAM     | 1       | 1         | 20.81                 | 20.86                    | 20.83                  | 22.5                | 4.5      |  |
| Channel            |            |         |           | 509200                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2641                  | 2692.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 25.41                 | 25.45                    | 25.38                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2636.02               | 2692.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 25.35                 | 25.40                    | 25.40                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 502002                | 518998                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2651.01               | 2692.99                  | 2665                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 25.40                 | 25.43                    | 25.36                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 502000                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2650                  | 2692.99                  | 2659.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 25.36                 | 25.43                    | 25.35                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2631.02               | 2692.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 25.37                 | 25.39                    | 25.42                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 503002                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2616.01               | 2692.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 25.34                 | 25.45                    | 25.35                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 502200                | 518998                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2611                  | 2692.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 25.39                 | 25.45                    | 25.37                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2636.01               | 2692.99                  | 2674.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 25.38                 | 25.39                    | 25.36                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2603.5                | 2692.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 25.35                 | 25.43                    | 25.38                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2601.01               | 2692.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 25.36                 | 25.39                    | 25.35                  | 27.0                | 0.0      |  |

| FCC_n41_Ant 2   |            |         |           |                            |                            |                            |                     |          |     |                     |          |  |
|-----------------|------------|---------|-----------|----------------------------|----------------------------|----------------------------|---------------------|----------|-----|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power [dBm]<br>Ch. / Freq. | Power [dBm]<br>Ch. / Freq. | Power [dBm]<br>Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Channel         |            |         |           | 509202                     | 518988                     | 529900                     |                     |          |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01                    | 2592.99                    | 2640                       |                     |          |     |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 22.41                      | 22.60                      | 22.75                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | P12 BPSK   | 1       | 137       | 22.47                      | 22.57                      | 22.71                      |                     |          |     |                     |          |  |
| 100             | P12 BPSK   | 1       | 271       | 22.43                      | 22.58                      | 22.72                      |                     |          |     |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 22.43                      | 22.55                      | 22.74                      |                     | 0.0      |     |                     |          |  |
| 100             | P12 BPSK   | 135     | 69        | 22.47                      | 22.58                      | 22.71                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | P12 BPSK   | 135     | 138       | 22.49                      | 22.58                      | 22.76                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | P12 BPSK   | 270     | 0         | 22.47                      | 22.58                      | 22.70                      |                     |          |     |                     |          |  |
| 100             | QPSK       | 1       | 1         | 22.51                      | 22.63                      | 22.79                      |                     |          |     |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.49                      | 22.61                      | 22.71                      |                     | 24.0     |     |                     |          |  |
| 100             | QPSK       | 1       | 271       | 22.42                      | 22.59                      | 22.76                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.46                      | 22.61                      | 22.71                      |                     |          |     |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.55                      | 22.62                      | 22.77                      |                     |          |     |                     |          |  |
| 100             | QPSK       | 135     | 138       | 22.42                      | 22.54                      | 22.75                      |                     | 24.0     |     |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.48                      | 22.56                      | 22.72                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | 16QAM      | 1       | 1         | 22.44                      | 22.60                      | 22.70                      | 24.0                | 0.0      |     |                     |          |  |
| 100             | 64QAM      | 1       | 1         | 22.66                      | 22.71                      | 22.72                      |                     |          |     |                     |          |  |
| 100             | 256QAM     | 1       | 1         | 20.69                      | 20.76                      | 20.84                      |                     |          |     |                     |          |  |
| 100             | 256QAM     | 1       | 1         | 20.69                      | 20.76                      | 20.84                      |                     | 21.5     | 2.5 |                     |          |  |
| Channel         |            |         |           | 508200                     | 518988                     | 529996                     | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2542                       | 2592.99                    | 2643.88                    |                     |          |     |                     |          |  |
| 90              | QPSK       | 1       | 1         | 22.42                      | 22.57                      | 22.73                      | 24.0                | 0.0      |     |                     |          |  |
| Channel         |            |         |           | 507204                     | 518988                     | 529998                     |                     |          |     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02                    | 2592.99                    | 2649.99                    |                     |          |     |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.45                      | 22.60                      | 22.77                      |                     | 24.0     | 0.0 |                     |          |  |
| Channel         |            |         |           | 506200                     | 518988                     | 530000                     | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2531.01                    | 2592.99                    | 2655                       |                     |          |     |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.49                      | 22.60                      | 22.76                      | 24.0                | 0.0      |     |                     |          |  |
| Channel         |            |         |           | 505200                     | 518988                     | 531096                     |                     |          |     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2526.00                    | 2592.99                    | 2659.96                    |                     |          |     |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.44                      | 22.55                      | 22.71                      |                     | 24.0     | 0.0 |                     |          |  |
| Channel         |            |         |           | 504204                     | 518988                     | 532098                     | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2521.02                    | 2592.99                    | 2664.99                    |                     |          |     |                     |          |  |
| 50              | QPSK       | 1       | 1         | 22.48                      | 22.59                      | 22.74                      | 24.0                | 0.0      |     |                     |          |  |
| Channel         |            |         |           | 503200                     | 518988                     | 533000                     |                     |          |     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01                    | 2592.99                    | 2670                       |                     |          |     |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.41                      | 22.54                      | 22.69                      |                     | 24.0     | 0.0 |                     |          |  |
| Channel         |            |         |           | 502200                     | 518988                     | 533998                     | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2512.00                    | 2592.99                    | 2673.98                    |                     |          |     |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.44                      | 22.57                      | 22.74                      | 24.0                | 0.0      |     |                     |          |  |
| Channel         |            |         |           | 501204                     | 518988                     | 535098                     |                     |          |     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02                    | 2592.99                    | 2678.99                    |                     |          |     |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.46                      | 22.54                      | 22.73                      |                     | 24.0     | 0.0 |                     |          |  |
| Channel         |            |         |           | 500200                     | 518988                     | 536000                     | Tune-up limit (dBm) | MPR (dB) |     |                     |          |  |
| Frequency (MHz) |            |         |           | 2501.00                    | 2592.99                    | 2682.48                    |                     |          |     |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.42                      | 22.59                      | 22.77                      | 24.0                | 0.0      |     |                     |          |  |
| Channel         |            |         |           | 499200                     | 518988                     | 537000                     |                     |          |     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2491.03                    | 2592.99                    | 2685                       |                     |          |     |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.44                      | 22.60                      | 22.76                      |                     | 24.0     | 0.0 |                     |          |  |



| FCC_n41 HPUE_Ant 2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 500202                | 518598                   | 530000                 | (dB)                |          |  |
| Frequency (MHz)    |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 24.46                 | 24.54                    | 24.57                  | 26.0                |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 24.47                 | 24.65                    | 24.71                  |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 271       | 24.38                 | 24.56                    | 24.58                  |                     | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 0         | 24.32                 | 24.52                    | 24.53                  | 25.5                | 0.5      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 24.45                 | 24.61                    | 24.72                  | 26.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 24.43                 | 24.55                    | 24.58                  | 25.5                | 0.5      |  |
| 100                | Pl2 BPSK   | 270     | 0         | 24.36                 | 24.48                    | 24.62                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 24.51                 | 24.68                    | 24.74                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 24.47                 | 24.55                    | 24.60                  | 26.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 24.44                 | 24.58                    | 24.58                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 23.86                 | 23.82                    | 23.79                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 24.46                 | 24.61                    | 24.67                  | 26.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 23.94                 | 24.12                    | 24.15                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 23.85                 | 23.91                    | 23.97                  |                     | 25.0     |  |
| 100                | 16QAM      | 1       | 1         | 23.75                 | 23.83                    | 23.82                  | 25.0                | 1.0      |  |
| 100                | 64QAM      | 1       | 1         | 22.68                 | 22.71                    | 22.72                  | 23.5                | 2.5      |  |
| 100                | 256QAM     | 1       | 1         | 20.89                 | 20.76                    | 20.84                  | 21.5                | 4.5      |  |
| Channel            |            |         |           | 508200                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2644.98                | (dB)                |          |  |
| 90                 | QPSK       | 1       | 1         | 24.39                 | 24.52                    | 24.73                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dB)                |          |  |
| 80                 | QPSK       | 1       | 1         | 24.45                 | 24.52                    | 24.69                  | 23.0                | 0.0      |  |
| Channel            |            |         |           | 505202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dB)                |          |  |
| 70                 | QPSK       | 1       | 1         | 24.42                 | 24.53                    | 24.59                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2536                  | 2592.99                  | 2659.98                | (dB)                |          |  |
| 60                 | QPSK       | 1       | 1         | 24.37                 | 24.46                    | 24.55                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2644.99                | (dB)                |          |  |
| 50                 | QPSK       | 1       | 1         | 24.53                 | 24.49                    | 24.68                  | 25.0                | 0.0      |  |
| Channel            |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dB)                |          |  |
| 40                 | QPSK       | 1       | 1         | 24.45                 | 24.62                    | 24.60                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 502203                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dB)                |          |  |
| 30                 | QPSK       | 1       | 1         | 24.33                 | 24.56                    | 24.69                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2504.92               | 2592.99                  | 2679.96                | (dB)                |          |  |
| 20                 | QPSK       | 1       | 1         | 24.44                 | 24.49                    | 24.68                  | 26.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dB)                |          |  |
| 15                 | QPSK       | 1       | 1         | 24.49                 | 24.59                    | 24.59                  | 25.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dB)                |          |  |
| 10                 | QPSK       | 1       | 1         | 24.35                 | 24.62                    | 24.62                  | 26.0                | 0.0      |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |               |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit | MPR (dB) |  |
| Channel         |            |         |           | 500202                | 518598                   | 530000                 |               |          |  |
| Frequency (MHz) |            |         |           | 2548.01               | 2592.99                  | 2640                   |               |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.17                 | 22.24                    | 22.15                  | 23.5          | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 137       | 22.17                 | 22.25                    | 22.17                  |               |          |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.18                 | 22.26                    | 22.18                  |               |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 22.21                 | 22.25                    | 22.15                  | 23.5          | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 22.20                 | 22.28                    | 22.10                  | 23.5          | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 22.16                 | 22.28                    | 22.11                  | 23.5          | 0.0      |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.16                 | 22.28                    | 22.11                  |               |          |  |
| 100             | QPSK       | 1       | 1         | 22.26                 | 22.33                    | 22.20                  |               |          |  |
| 100             | QPSK       | 1       | 137       | 22.22                 | 22.30                    | 22.10                  | 23.5          | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 22.18                 | 22.30                    | 22.13                  |               |          |  |
| 100             | QPSK       | 135     | 0         | 22.26                 | 22.24                    | 22.13                  |               |          |  |
| 100             | QPSK       | 135     | 69        | 22.22                 | 22.28                    | 22.15                  | 23.5          | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.17                 | 22.24                    | 22.14                  |               |          |  |
| 100             | QPSK       | 270     | 0         | 22.18                 | 22.23                    | 22.12                  |               | 23.5     |  |
| 100             | 16QAM      | 1       | 1         | 22.16                 | 22.31                    | 22.10                  | 23.5          | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.90                 | 21.92                    | 21.85                  | 23.0          | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0          | 2.5      |  |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                | (dB)          |          |  |
| 90              | QPSK       | 1       | 1         | 22.22                 | 22.28                    | 22.15                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dB)          |          |  |
| 80              | QPSK       | 1       | 1         | 22.21                 | 22.24                    | 22.16                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 505202                | 518598                   | 531000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dB)          |          |  |
| 70              | QPSK       | 1       | 1         | 22.24                 | 22.30                    | 22.17                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536                  | 2592.99                  | 2659.98                | (dB)          |          |  |
| 60              | QPSK       | 1       | 1         | 22.24                 | 22.27                    | 22.10                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2644.99                | (dB)          |          |  |
| 50              | QPSK       | 1       | 1         | 22.20                 | 22.28                    | 22.10                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dB)          |          |  |
| 40              | QPSK       | 1       | 1         | 22.24                 | 22.23                    | 22.18                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 502203                | 518598                   | 534996                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dB)          |          |  |
| 30              | QPSK       | 1       | 1         | 22.22                 | 22.28                    | 22.12                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2504.92               | 2592.99                  | 2679.96                | (dB)          |          |  |
| 20              | QPSK       | 1       | 1         | 22.23                 | 22.25                    | 22.10                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dB)          |          |  |
| 15              | QPSK       | 1       | 1         | 22.21                 | 22.30                    | 22.16                  | 23.5          | 0.0      |  |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dB)          |          |  |
| 10              | QPSK       | 1       | 1         | 22.22                 | 22.24                    | 22.12                  | 23.5          | 0.0      |  |

| FCC_n41 HPUE_Ant 6 |            |         |           |                       |                          |                        |               |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit | MPR (dB) |  |
| Channel            |            |         |           | 500202                | 518598                   | 530000                 |               |          |  |
| Frequency (MHz)    |            |         |           | 2548.01               | 2592.99                  | 2640                   |               |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 24.25                 | 24.30                    | 24.18                  | 25.5          | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 137       | 24.30                 | 24.33                    | 24.18                  |               |          |  |
| 100                | Pl2 BPSK   | 1       | 271       | 24.25                 | 24.29                    | 23.18                  |               |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 23.81                 | 23.78                    | 23.55                  | 25.0          | 0.5      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 24.31                 | 24.25                    | 24.21                  | 25.5          | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 23.78                 | 23.80                    | 23.76                  | 25.0          | 0.5      |  |
| 100                | Pl2 BPSK   | 270     | 0         | 23.72                 | 23.75                    | 23.68                  |               |          |  |
| 100                | QPSK       | 1       | 1         | 24.31                 | 24.36                    | 24.25                  |               |          |  |
| 100                | QPSK       | 1       | 137       | 24.25                 | 24.31                    | 24.20                  | 25.5          | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 24.30                 | 23.98                    | 23.05                  |               |          |  |
| 100                | QPSK       | 135     | 0         | 23.86                 | 23.84                    | 23.88                  |               |          |  |
| 100                | QPSK       | 135     | 69        | 24.26                 | 24.26                    | 24.15                  | 25.5          | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 23.22                 | 23.23                    | 23.28                  | 25.5          | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 23.13                 | 23.15                    | 22.90                  |               |          |  |
| 100                | 16QAM      | 1       | 1         | 23.13                 | 23.16                    | 23.22                  |               |          |  |
| 100                | 64QAM      | 1       | 1         | 21.90                 | 21.92                    | 21.85                  | 23.0          | 2.5      |  |
| 100                | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0          | 4.5      |  |
| Channel            |            |         |           | 500202                | 518598                   | 530000                 |               |          |  |
| Frequency (MHz)    |            |         |           | 2548.01               | 2592.99                  | 2640.00                |               |          |  |
| 90                 | QPSK       | 1       | 1         | 24.25                 | 24.33                    | 24.18                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2618.00               | 2662.98                  | 2689.98                | (dBm)         |          |  |
| 80                 | QPSK       | 1       | 1         | 24.28                 | 24.34                    | 24.17                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 506020                | 518598                   | 531000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2665                   | (dBm)         |          |  |
| 70                 | QPSK       | 1       | 1         | 24.23                 | 24.29                    | 24.14                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 503200                | 518598                   | 531998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2526                  | 2592.99                  | 2659.98                | (dBm)         |          |  |
| 60                 | QPSK       | 1       | 1         | 24.29                 | 24.22                    | 24.20                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 501200                | 518598                   | 532000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)         |          |  |
| 50                 | QPSK       | 1       | 1         | 24.30                 | 24.29                    | 24.22                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 500200                | 518598                   | 534000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2520.02               | 2592.99                  | 2670                   | (dBm)         |          |  |
| 40                 | QPSK       | 1       | 1         | 24.26                 | 24.34                    | 24.19                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 502200                | 518598                   | 534998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2520.01               | 2592.99                  | 2670.98                | (dBm)         |          |  |
| 30                 | QPSK       | 1       | 1         | 24.31                 | 24.25                    | 24.21                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2526.02               | 2592.99                  | 2679.99                | (dBm)         |          |  |
| 20                 | QPSK       | 1       | 1         | 24.23                 | 24.30                    | 24.18                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 500200                | 518598                   | 536998                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2503.0                | 2592.99                  | 2682.48                | (dBm)         |          |  |
| 15                 | QPSK       | 1       | 1         | 24.27                 | 24.34                    | 24.18                  | 25.5          | 0.0      |  |
| Channel            |            |         |           | 501200                | 518598                   | 537000                 | Tune-up limit | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)         |          |  |
| 10                 | QPSK       | 1       | 1         | 24.27                 | 24.33                    | 24.10                  | 25.5          | 0.0      |  |

| FCC_n41_Ant 10  |            |         |           |                      |                         |                       |                     |          |     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel         |            |         |           | 505202               | 518598                  | 530900                | 23.0                | 0.0      |     |
| Frequency (MHz) |            |         |           | 2546.01              | 2592.99                 | 2640                  |                     |          |     |
| 100             | PI2 BPSK   | 1       | 1         | 21.69                | 22.00                   | 21.71                 | 23.0                | 0.0      |     |
| 100             | PI2 BPSK   | 1       | 137       | 21.66                | 22.00                   | 21.60                 |                     |          |     |
| 100             | PI2 BPSK   | 1       | 271       | 21.71                | 21.98                   | 21.59                 |                     |          |     |
| 100             | PI2 BPSK   | 135     | 0         | 21.68                | 22.04                   | 21.67                 |                     |          |     |
| 100             | PI2 BPSK   | 135     | 69        | 21.77                | 22.03                   | 21.59                 | 23.0                |          | 0.0 |
| 100             | PI2 BPSK   | 135     | 138       | 21.67                | 21.98                   | 21.62                 | 23.0                | 0.0      |     |
| 100             | PI2 BPSK   | 270     | 0         | 21.73                | 22.01                   | 21.68                 |                     |          |     |
| 100             | QPSK       | 1       | 1         | 21.75                | 22.07                   | 21.74                 | 23.0                | 0.0      |     |
| 100             | QPSK       | 1       | 137       | 21.74                | 22.02                   | 21.62                 |                     |          |     |
| 100             | QPSK       | 1       | 271       | 21.76                | 22.02                   | 21.71                 |                     |          |     |
| 100             | QPSK       | 135     | 0         | 21.66                | 21.98                   | 21.59                 |                     |          |     |
| 100             | QPSK       | 135     | 69        | 21.72                | 22.02                   | 21.68                 | 23.0                |          | 0.0 |
| 100             | QPSK       | 135     | 138       | 21.68                | 21.98                   | 21.62                 | 23.0                | 0.0      |     |
| 100             | QPSK       | 270     | 0         | 21.76                | 21.96                   | 21.66                 |                     |          |     |
| 100             | 16QAM      | 1       | 1         | 21.64                | 21.97                   | 21.73                 | 23.0                |          | 0.0 |
| 100             | 64QAM      | 1       | 1         | 21.30                | 21.43                   | 21.21                 | 22.5                |          | 0.5 |
| 100             | 256QAM     | 1       | 1         | 20.33                | 20.41                   | 20.15                 | 21.5                |          | 1.5 |
| Channel         |            |         |           | 505200               | 518598                  | 529996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2541                 | 2592.99                 | 2644.88               | (dBm)               | (dB)     |     |
| 90              | QPSK       | 1       | 1         | 21.72                | 22.05                   | 21.64                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 507204               | 518598                  | 529998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2536.02              | 2592.99                 | 2648.99               | (dBm)               | (dB)     |     |
| 80              | QPSK       | 1       | 1         | 21.72                | 21.93                   | 21.70                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 505202               | 518598                  | 531000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2631.01              | 2692.99                 | 2665                  | (dBm)               | (dB)     |     |
| 70              | QPSK       | 1       | 1         | 21.78                | 21.96                   | 21.59                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 505200               | 518598                  | 531996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2529                 | 2592.99                 | 2659.98               | (dBm)               | (dB)     |     |
| 60              | QPSK       | 1       | 1         | 21.78                | 21.98                   | 21.62                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 504204               | 518598                  | 532998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2541.02              | 2592.99                 | 2664.99               | (dBm)               | (dB)     |     |
| 50              | QPSK       | 1       | 1         | 21.71                | 22.00                   | 21.73                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 505202               | 518598                  | 534000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2616.01              | 2692.99                 | 2670                  | (dBm)               | (dB)     |     |
| 40              | QPSK       | 1       | 1         | 21.64                | 22.01                   | 21.72                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 502200               | 518598                  | 535996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2611                 | 2692.99                 | 2674.98               | (dBm)               | (dB)     |     |
| 30              | QPSK       | 1       | 1         | 21.69                | 21.96                   | 21.62                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 501204               | 518598                  | 535998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2608.00              | 2692.99                 | 2678.99               | (dBm)               | (dB)     |     |
| 20              | QPSK       | 1       | 1         | 21.74                | 21.99                   | 21.61                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 500700               | 518598                  | 536496                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2603.5               | 2692.99                 | 2662.48               | (dBm)               | (dB)     |     |
| 15              | QPSK       | 1       | 1         | 21.74                | 22.04                   | 21.63                 | 23.0                |          | 0.0 |
| Channel         |            |         |           | 500202               | 518598                  | 537000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 2601.01              | 2692.99                 | 2665                  | (dBm)               | (dB)     |     |
| 10              | QPSK       | 1       | 1         | 21.68                | 22.03                   | 21.72                 | 23.0                |          | 0.0 |

| FCC_n41 HPUE_Ant 10 |            |         |           |                      |                         |                       |                     |          |     |
|---------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel             |            |         |           | 505202               | 518598                  | 530900                | 25.0                | 0.0      |     |
| Frequency (MHz)     |            |         |           | 2546.01              | 2592.99                 | 2640                  |                     |          |     |
| 100                 | PI2 BPSK   | 1       | 1         | 23.78                | 23.90                   | 23.60                 | 25.0                | 0.0      |     |
| 100                 | PI2 BPSK   | 1       | 137       | 23.64                | 23.85                   | 23.65                 |                     |          |     |
| 100                 | PI2 BPSK   | 1       | 271       | 23.73                | 23.89                   | 23.62                 |                     |          |     |
| 100                 | PI2 BPSK   | 135     | 0         | 23.47                | 23.98                   | 23.31                 |                     |          |     |
| 100                 | PI2 BPSK   | 135     | 69        | 23.69                | 23.87                   | 23.65                 | 25.0                |          | 0.0 |
| 100                 | PI2 BPSK   | 135     | 138       | 23.35                | 23.60                   | 23.27                 | 24.5                | 0.5      |     |
| 100                 | PI2 BPSK   | 270     | 0         | 23.45                | 23.60                   | 23.22                 |                     |          |     |
| 100                 | QPSK       | 1       | 1         | 23.70                | 23.98                   | 23.65                 | 25.0                | 0.0      |     |
| 100                 | QPSK       | 1       | 137       | 23.65                | 23.89                   | 23.51                 |                     |          |     |
| 100                 | QPSK       | 1       | 271       | 23.70                | 23.88                   | 23.59                 |                     |          |     |
| 100                 | QPSK       | 135     | 0         | 23.66                | 23.86                   | 23.48                 |                     |          |     |
| 100                 | QPSK       | 135     | 69        | 23.65                | 23.95                   | 23.50                 | 25.0                |          | 0.0 |
| 100                 | QPSK       | 135     | 138       | 22.70                | 22.88                   | 22.37                 | 24.0                | 1.0      |     |
| 100                 | QPSK       | 270     | 0         | 22.66                | 22.94                   | 22.52                 |                     |          |     |
| 100                 | 16QAM      | 1       | 1         | 22.69                | 22.97                   | 22.64                 | 24.0                |          | 1.0 |
| 100                 | 64QAM      | 1       | 1         | 21.30                | 21.43                   | 21.21                 | 22.5                |          | 2.5 |
| 100                 | 256QAM     | 1       | 1         | 20.33                | 20.41                   | 20.15                 | 21.5                |          | 3.5 |
| Channel             |            |         |           | 505200               | 518598                  | 529996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2541                 | 2592.99                 | 2644.88               | (dBm)               | (dB)     |     |
| 90                  | QPSK       | 1       | 1         | 23.65                | 23.85                   | 23.52                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 507204               | 518598                  | 529998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2536.02              | 2592.99                 | 2648.99               | (dBm)               | (dB)     |     |
| 80                  | QPSK       | 1       | 1         | 23.67                | 23.83                   | 23.50                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 505202               | 518598                  | 531000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2631.01              | 2692.99                 | 2665                  | (dBm)               | (dB)     |     |
| 70                  | QPSK       | 1       | 1         | 23.62                | 23.87                   | 23.59                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 505200               | 518598                  | 531996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2529                 | 2592.99                 | 2659.98               | (dBm)               | (dB)     |     |
| 60                  | QPSK       | 1       | 1         | 23.65                | 23.90                   | 23.54                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 504204               | 518598                  | 532998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2541.02              | 2592.99                 | 2664.99               | (dBm)               | (dB)     |     |
| 50                  | QPSK       | 1       | 1         | 23.65                | 23.91                   | 23.47                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 505202               | 518598                  | 534000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2616.01              | 2692.99                 | 2670                  | (dBm)               | (dB)     |     |
| 40                  | QPSK       | 1       | 1         | 23.65                | 23.88                   | 23.56                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 502200               | 518598                  | 535996                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2611                 | 2692.99                 | 2674.98               | (dBm)               | (dB)     |     |
| 30                  | QPSK       | 1       | 1         | 23.71                | 23.91                   | 23.58                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 501204               | 518598                  | 535998                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2608.00              | 2692.99                 | 2678.99               | (dBm)               | (dB)     |     |
| 20                  | QPSK       | 1       | 1         | 23.59                | 23.93                   | 23.58                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 500700               | 518598                  | 536496                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2603.5               | 2692.99                 | 2662.48               | (dBm)               | (dB)     |     |
| 15                  | QPSK       | 1       | 1         | 23.60                | 23.84                   | 23.40                 | 25.0                |          | 0.0 |
| Channel             |            |         |           | 500202               | 518598                  | 537000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)     |            |         |           | 2601.01              | 2692.99                 | 2665                  | (dBm)               | (dB)     |     |
| 10                  | QPSK       | 1       | 1         | 23.63                | 23.79                   | 23.56                 | 25.0                |          | 0.0 |



| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 636000                | 641666                   | 646332                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | Pl2 BPSK   | 1       | 1         | 23.09                 | 23.11                    | 23.10                  |                     |          |  |
| 40               | Pl2 BPSK   | 1       | 53        | 23.20                 | 23.21                    | 23.15                  | 24.0                | 0.0      |  |
| 40               | Pl2 BPSK   | 1       | 104       | 23.05                 | 23.20                    | 23.06                  |                     |          |  |
| 40               | Pl2 BPSK   | 50      | 0         | 22.96                 | 22.99                    | 22.94                  | 24.0                | 0.0      |  |
| 40               | Pl2 BPSK   | 50      | 28        | 22.85                 | 23.01                    | 22.86                  | 24.0                | 0.0      |  |
| 40               | Pl2 BPSK   | 50      | 56        | 22.93                 | 22.95                    | 22.91                  |                     |          |  |
| 40               | Pl2 BPSK   | 100     | 0         | 22.88                 | 22.90                    | 22.87                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 1         | 23.19                 | 23.25                    | 23.17                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.12                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 23.03                 | 23.24                    | 23.10                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 23.15                 | 23.16                    | 23.13                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 23.15                 | 23.20                    | 23.14                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 23.10                 | 23.11                    | 23.08                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 23.14                 | 23.18                    | 23.12                  | 24.0                | 0.0      |  |
| 40               | 8QAM       | 1       | 1         | 23.15                 | 23.16                    | 23.15                  | 24.0                | 0.0      |  |
| 40               | 8QAM       | 1       | 1         | 22.96                 | 22.98                    | 22.92                  | 23.5                | 0.5      |  |
| 40               | 256QAM     | 1       | 1         | 21.10                 | 21.11                    | 21.18                  | 21.5                | 2.5      |  |
| Channel          |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3565.02               | 3624.99                  | 3684.99                |                     |          |  |
| 30               | QPSK       | 1       | 1         | 23.04                 | 23.09                    | 23.01                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |          |  |
| 20               | QPSK       | 1       | 1         | 23.06                 | 23.13                    | 23.04                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637000                | 641666                   | 645332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3565                  | 3624.99                  | 3684.98                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 23.05                 | 23.12                    | 22.97                  | 24.0                | 0.0      |  |

| Part96_n48_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 636000                | 641666                   | 646332                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | Pl2 BPSK   | 1       | 1         | 22.71                 | 22.53                    | 22.30                  |                     |          |  |
| 40               | Pl2 BPSK   | 1       | 53        | 22.54                 | 22.51                    | 22.30                  | 24.0                | 0.0      |  |
| 40               | Pl2 BPSK   | 1       | 104       | 22.27                 | 22.26                    | 22.29                  |                     |          |  |
| 40               | Pl2 BPSK   | 50      | 0         | 22.07                 | 22.12                    | 22.09                  | 23.5                | 0.5      |  |
| 40               | Pl2 BPSK   | 50      | 28        | 22.50                 | 22.51                    | 22.26                  | 24.0                | 0.0      |  |
| 40               | Pl2 BPSK   | 50      | 56        | 21.98                 | 22.07                    | 21.99                  |                     |          |  |
| 40               | Pl2 BPSK   | 100     | 0         | 21.71                 | 21.83                    | 21.72                  | 23.5                | 0.5      |  |
| 40               | QPSK       | 1       | 1         | 22.73                 | 22.55                    | 22.34                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 22.44                 | 22.34                    | 22.26                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 22.31                 | 22.17                    | 22.16                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 21.16                 | 21.23                    | 21.26                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 22.64                 | 22.32                    | 22.21                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 20.81                 | 20.88                    | 20.82                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 21.45                 | 21.40                    | 21.35                  | 23.0                | 1.0      |  |
| 40               | 8QAM       | 1       | 1         | 20.36                 | 20.25                    | 20.53                  | 23.0                | 1.0      |  |
| 40               | 8QAM       | 1       | 1         | 18.71                 | 18.62                    | 18.92                  | 21.5                | 2.5      |  |
| 40               | 256QAM     | 1       | 1         | 16.87                 | 16.83                    | 17.12                  | 19.5                | 4.5      |  |
| Channel          |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3565.02               | 3624.99                  | 3684.99                |                     |          |  |
| 30               | QPSK       | 1       | 1         | 22.68                 | 22.47                    | 22.32                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |          |  |
| 20               | QPSK       | 1       | 1         | 22.67                 | 22.46                    | 22.26                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637000                | 641666                   | 645332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3565                  | 3624.99                  | 3684.98                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 22.68                 | 22.49                    | 22.26                  | 24.0                | 0.0      |  |

| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 636000                | 641666                   | 646332                 |                     |          |  |
| Frequency (MHz)   |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |
| 40                | Pl2 BPSK   | 1       | 1         | 23.00                 | 23.00                    | 22.99                  |                     |          |  |
| 40                | Pl2 BPSK   | 1       | 53        | 23.03                 | 23.05                    | 23.04                  | 24.0                | 0.0      |  |
| 40                | Pl2 BPSK   | 1       | 104       | 23.00                 | 23.02                    | 23.02                  |                     |          |  |
| 40                | Pl2 BPSK   | 50      | 0         | 22.83                 | 22.91                    | 22.80                  | 23.5                | 0.5      |  |
| 40                | Pl2 BPSK   | 50      | 28        | 22.83                 | 22.89                    | 22.80                  | 24.0                | 0.0      |  |
| 40                | Pl2 BPSK   | 50      | 56        | 22.83                 | 22.90                    | 22.82                  |                     |          |  |
| 40                | Pl2 BPSK   | 100     | 0         | 22.81                 | 22.87                    | 22.84                  | 23.5                | 0.5      |  |
| 40                | QPSK       | 1       | 1         | 23.08                 | 23.10                    | 23.05                  |                     |          |  |
| 40                | QPSK       | 1       | 53        | 22.98                 | 23.02                    | 22.83                  | 24.0                | 0.0      |  |
| 40                | QPSK       | 1       | 104       | 23.01                 | 23.09                    | 23.03                  |                     |          |  |
| 40                | QPSK       | 50      | 0         | 22.84                 | 22.90                    | 22.82                  |                     |          |  |
| 40                | QPSK       | 50      | 28        | 22.85                 | 22.93                    | 22.86                  | 24.0                | 0.0      |  |
| 40                | QPSK       | 50      | 56        | 22.74                 | 22.83                    | 22.78                  |                     |          |  |
| 40                | QPSK       | 100     | 0         | 22.86                 | 22.90                    | 22.86                  | 24.0                | 0.0      |  |
| 40                | 8QAM       | 1       | 1         | 20.93                 | 21.03                    | 20.94                  | 23.0                | 1.0      |  |
| 40                | 8QAM       | 1       | 1         | 19.44                 | 19.52                    | 19.50                  | 21.5                | 2.5      |  |
| 40                | 256QAM     | 1       | 1         | 17.49                 | 17.55                    | 17.52                  | 19.5                | 4.5      |  |
| Channel           |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3565.02               | 3624.99                  | 3684.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.99                 | 23.04                    | 23.01                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 23.03                 | 23.08                    | 22.99                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 637000                | 641666                   | 645332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3565                  | 3624.99                  | 3684.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 23.00                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |



| Part96_n48_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 630000               | 641666                  | 646332                | 24.0                | 0.0      |  |
| Frequency (MHz)  |            |         |           | 3570                 | 3624.99                 | 3679.98               |                     |          |  |
| 40               | PI2 BPSK   | 1       | 1         | 22.59                | 22.67                   | 22.57                 | 24.0                | 0.0      |  |
| 40               | PI2 BPSK   | 1       | 53        | 22.46                | 22.61                   | 22.47                 |                     |          |  |
| 40               | PI2 BPSK   | 1       | 104       | 22.50                | 22.62                   | 22.49                 | 23.5                | 0.5      |  |
| 40               | PI2 BPSK   | 50      | 0         | 21.77                | 21.82                   | 21.73                 |                     |          |  |
| 40               | PI2 BPSK   | 50      | 26        | 22.58                | 22.65                   | 22.58                 | 24.0                | 0.0      |  |
| 40               | PI2 BPSK   | 50      | 56        | 21.68                | 21.70                   | 21.61                 |                     |          |  |
| 40               | PI2 BPSK   | 100     | 0         | 21.36                | 21.43                   | 21.33                 | 23.5                | 0.5      |  |
| 40               | QPSK       | 1       | 1         | 22.65                | 22.72                   | 22.59                 |                     |          |  |
| 40               | QPSK       | 1       | 53        | 22.58                | 22.68                   | 22.51                 | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 22.33                | 22.47                   | 22.34                 |                     |          |  |
| 40               | QPSK       | 50      | 0         | 20.76                | 20.82                   | 20.74                 | 24.0                | 0.0      |  |
| 40               | QPSK       | 50      | 26        | 22.55                | 22.61                   | 22.57                 |                     |          |  |
| 40               | QPSK       | 50      | 56        | 20.76                | 20.88                   | 20.81                 | 23.5                | 1.0      |  |
| 40               | QPSK       | 100     | 0         | 21.62                | 21.66                   | 21.62                 |                     |          |  |
| 40               | 16QAM      | 1       | 1         | 18.72                | 18.77                   | 18.78                 | 23.0                | 1.0      |  |
| 40               | 64QAM      | 1       | 1         | 18.23                | 18.25                   | 18.19                 |                     |          |  |
| 40               | 256QAM     | 1       | 1         | 16.16                | 16.29                   | 16.17                 | 19.5                | 4.5      |  |
| Channel          |            |         |           | 637098               | 641686                  | 645986                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3665.02              | 3624.99                 | 3624.99               | 24.0                | 0.0      |  |
| 30               | QPSK       | 1       | 1         | 22.59                | 22.65                   | 22.51                 | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637334               | 641686                  | 646000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3660.01              | 3624.99                 | 3680                  | 24.0                | 0.0      |  |
| 20               | QPSK       | 1       | 1         | 22.55                | 22.66                   | 22.51                 | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637050               | 641666                  | 646332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3655                 | 3624.99                 | 3684.98               | 24.0                | 0.0      |  |
| 10               | QPSK       | 1       | 1         | 22.62                | 22.63                   | 22.33                 | 24.0                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332               | 633332                  | 633332                | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3496.98              |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                      | 22.96                   |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                      | 23.15                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                      | 23.13                   |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                      | 22.98                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                      | 23.11                   |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                      | 23.08                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                      | 23.09                   |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                      | 23.16                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       |                      | 23.11                   |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                      | 23.10                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         |                      | 22.92                   |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                      | 23.09                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 138       |                      | 23.02                   |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                      | 22.98                   |                       |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                      | 22.19                   |                       | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                      | 23.08                   |                       |                     |          |  |
| 100               | 256QAM     | 1       | 1         |                      | 22.11                   |                       | 23.5                | 0.5      |  |
| Channel           |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                 | 3499.98                 | 3504.99               | 24.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 23.10                | 23.13                   | 23.09                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02              | 3499.98                 | 3510                  | 24.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 23.09                | 23.07                   | 23.08                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632534               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01              | 3499.98                 | 3514.98               | 24.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 23.08                | 23.14                   | 23.14                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632050               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                 | 3499.98                 | 3519.99               | 24.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 23.12                | 23.07                   | 23.15                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.02              | 3499.98                 | 3525                  | 24.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 23.09                | 23.12                   | 23.15                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               | 24.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 23.06                | 23.15                   | 23.15                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                 | 3499.98                 | 3534.99               | 24.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 23.13                | 23.06                   | 23.13                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  | 24.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 23.12                | 23.06                   | 23.11                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630500               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.49               | 24.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 23.04                | 23.07                   | 23.08                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               | 24.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 23.07                | 23.13                   | 23.15                 | 24.0                | 0.0      |  |



| Part27O_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                | 650000                   | 650000                 |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 23.15                 | 23.23                    | 23.17                  |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 137       | 23.20                 | 23.25                    | 23.15                  | 24.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 271       | 23.18                 | 23.21                    | 23.22                  |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 23.13                 | 23.12                    | 23.17                  | 24.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 23.10                 | 23.13                    | 23.10                  | 24.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 23.12                 | 23.04                    | 23.10                  | 24.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 23.05                 | 23.00                    | 23.06                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 23.25                 | 23.28                    | 23.25                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 23.18                 | 23.25                    | 23.19                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 23.20                 | 23.21                    | 23.19                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 23.05                 | 23.09                    | 23.08                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 23.12                 | 23.15                    | 23.11                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 23.08                 | 23.11                    | 23.04                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 23.03                 | 23.05                    | 23.00                  | 24.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 23.12                 | 23.12                    | 23.12                  | 24.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 23.10                 | 23.10                    | 23.14                  | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 22.27                 | 22.21                    | 22.24                  | 23.5                | 0.5      |  |
| Channel           |            |         |           | 649668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3840                     | 3934.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 23.22                 | 23.19                    | 23.23                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 23.17                 | 23.19                    | 23.17                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 23.21                 | 23.23                    | 23.18                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3944.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 23.20                 | 23.21                    | 23.16                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3944.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 23.23                 | 23.23                    | 23.17                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 23.16                 | 23.19                    | 23.15                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 23.19                 | 23.18                    | 23.21                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3714.01               | 3840                     | 3965.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 23.21                 | 23.22                    | 23.17                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 23.22                 | 23.22                    | 23.22                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 23.15                 | 23.25                    | 23.18                  | 24.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633000                | 633332                   |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3489.98               |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 26.07                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 26.16                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 26.14                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 26.02                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 26.07                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 25.79                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 26.07                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 26.20                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 26.11                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 26.08                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 26.01                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 26.08                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 26.00                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 26.08                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | 8QAM       | 1       | 1         | 26.11                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | 8QAM       | 1       | 1         | 26.33                 |                          |                        | 25.5                | 1.5      |  |
| 100                    | 256QAM     | 1       | 1         | 22.91                 |                          |                        | 23.5                | 3.5      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3486                  | 3489.98                  | 3524.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 26.13                 | 26.18                    | 26.07                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3490.02               | 3495.98                  | 3515                   |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 26.13                 | 26.16                    | 26.04                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3489.98                  | 3514.98                |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 26.06                 | 26.18                    | 26.01                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3477.02               | 3489.98                  | 3525                   |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 26.09                 | 26.10                    | 26.04                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3472.02               | 3489.98                  | 3530                   |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 26.08                 | 26.13                    | 26.08                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3489.98                  | 3529.98                |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 26.06                 | 26.11                    | 26.02                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3489.98                  | 3534.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 26.09                 | 26.10                    | 26.01                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3489.98                  | 3540                   |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 26.07                 | 26.13                    | 26.04                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 630300                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.52               | 3489.98                  | 3542.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 26.06                 | 26.18                    | 26.01                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3489.98                  | 3544.98                |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 26.10                 | 26.13                    | 26.08                  | 27.0                | 0.0      |  |

| Part27O_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                | 650000                   | 662000                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 26.11                 | 26.20                    | 26.14                  |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 26.19                 | 26.29                    | 26.26                  | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 26.21                 | 26.25                    | 26.15                  |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 26.08                 | 26.11                    | 26.04                  | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 26.15                 | 26.21                    | 26.19                  | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 26.09                 | 26.15                    | 26.05                  | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 25.99                 | 26.04                    | 26.02                  |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 26.26                 | 26.34                    | 26.27                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 26.15                 | 26.21                    | 26.14                  | 27.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 26.20                 | 26.30                    | 26.23                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 26.09                 | 26.07                    | 25.88                  |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 26.15                 | 26.25                    | 26.16                  | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 25.97                 | 26.05                    | 25.88                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 25.91                 | 25.95                    | 25.86                  | 27.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 26.75                 | 26.81                    | 23.77                  | 27.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 24.26                 | 24.35                    | 24.30                  | 25.5                | 1.5      |  |
| 100                    | 256QAM     | 1       | 1         | 22.88                 | 22.92                    | 22.87                  | 23.5                | 3.5      |  |
| Channel                |            |         |           | 649698                | 650000                   | 662332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3145.85               | 3840                     | 3945.86                | 27.0                | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 26.22                 | 26.25                    | 26.17                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 643334                | 650000                   | 662666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3103.32               | 3840                     | 3939.39                | 27.0                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 26.23                 | 26.27                    | 26.22                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649000                | 650000                   | 663000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   | 27.0                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 26.20                 | 26.28                    | 26.23                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649000                | 650000                   | 663132                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3760.02               | 3840                     | 3949.08                | 27.0                | 0.0      |  |
| 60                     | QPSK       | 1       | 1         | 26.26                 | 26.31                    | 26.22                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649533                | 650000                   | 662533                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3724.51               | 3840                     | 3955.59                | 27.0                | 0.0      |  |
| 50                     | QPSK       | 1       | 1         | 26.21                 | 26.25                    | 26.20                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3726                  | 3840                     | 3950                   | 27.0                | 0.0      |  |
| 40                     | QPSK       | 1       | 1         | 26.25                 | 26.29                    | 26.24                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647698                | 650000                   | 664532                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3942.06                | 27.0                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 26.24                 | 26.29                    | 26.22                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647333                | 650000                   | 664666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3969.99                | 27.0                | 0.0      |  |
| 20                     | QPSK       | 1       | 1         | 26.24                 | 26.25                    | 26.18                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 664832                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3717.52               | 3840                     | 3972.48                | 27.0                | 0.0      |  |
| 15                     | QPSK       | 1       | 1         | 26.20                 | 26.24                    | 26.21                  | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710                  | 3840                     | 3974                   | 27.0                | 0.0      |  |
| 10                     | QPSK       | 1       | 1         | 26.25                 | 26.31                    | 26.17                  | 27.0                | 0.0      |  |

| Part27Q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 635332                |                          |                        | 22.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.94                 | 20.94                    | 20.94                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.93                 | 20.93                    | 20.93                  |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.98                 | 20.98                    | 20.98                  |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.97                 | 20.97                    | 20.95                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.94                 | 20.94                    | 20.92                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.92                 | 20.92                    | 20.96                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.96                 | 20.96                    | 21.00                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 21.04                 | 21.04                    | 21.03                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 20.96                 | 20.96                    | 20.99                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 20.88                 | 20.88                    | 20.89                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 20.92                 | 20.92                    | 21.00                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 20.96                 | 20.96                    | 21.02                  |                     |          |  |
| 100               | QPSK       | 135     | 138       | 20.94                 | 20.94                    | 20.98                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 20.94                 | 20.94                    | 20.95                  |                     |          |  |
| 100               | ISAM       | 1       | 1         | 20.94                 | 20.94                    | 20.94                  | 22.0                | 0.0      |  |
| 100               | ISAM       | 1       | 1         | 20.46                 | 20.46                    | 20.49                  | 21.5                | 0.5      |  |
| 100               | ISAM       | 1       | 1         | 18.42                 | 18.42                    | 18.5                   | 19.5                | 2.5      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | 22.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 20.97                 | 20.97                    | 21.04                  | 20.99               | 22.0     |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480.02               | 3499.98                  | 3510                   | 22.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 20.96                 | 20.96                    | 20.97                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 22.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 20.93                 | 20.93                    | 20.95                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.98                | 22.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 20.90                 | 20.90                    | 20.92                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | 22.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 20.98                 | 20.98                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 22.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 20.90                 | 20.90                    | 20.92                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.98                | 22.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 20.97                 | 20.97                    | 20.99                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | 22.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 20.96                 | 20.96                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636968                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.48                | 22.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 20.97                 | 20.97                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 22.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 20.94                 | 20.94                    | 20.96                  | 22.0                | 0.0      |  |

| Part27O_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        | 22.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3790                  | 3840                     | 3900                   |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.97                 | 21.00                    | 21.01                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.98                 | 21.01                    | 20.96                  |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.90                 | 21.00                    | 20.96                  |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.93                 | 21.03                    | 20.95                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.95                 | 21.03                    | 20.99                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.95                 | 21.00                    | 20.95                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.92                 | 21.02                    | 21.00                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 21.00                 | 21.06                    | 21.03                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 20.94                 | 21.02                    | 21.00                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 20.94                 | 20.97                    | 20.99                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 20.94                 | 20.96                    | 21.00                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 20.95                 | 21.05                    | 21.02                  |                     |          |  |
| 100               | QPSK       | 135     | 138       | 20.90                 | 20.96                    | 20.98                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 20.90                 | 20.97                    | 20.95                  |                     |          |  |
| 100               | ISAM       | 1       | 1         | 20.96                 | 20.96                    | 20.94                  | 22.0                | 0.0      |  |
| 100               | ISAM       | 1       | 1         | 20.44                 | 20.56                    | 20.49                  | 21.5                | 0.5      |  |
| 100               | ISAM       | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 2.5      |  |
| Channel           |            |         |           | 649668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                | 22.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 20.92                 | 21.04                    | 20.99                  | 22.0                | 22.0     |  |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.98                | 22.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 21.01                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | 22.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 20.94                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3943.98                | 22.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 20.96                 | 21.00                    | 20.95                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 653666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3949.98                | 22.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | 22.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 20.95                 | 21.02                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 654968                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3718.01               | 3840                     | 3965.98                | 22.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 20.91                 | 21.02                    | 20.94                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3975                   | 22.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 20.92                 | 21.02                    | 20.93                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 656332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | 22.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 20.93                 | 20.99                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 657000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   | 22.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 20.96                  | 22.0                | 0.0      |  |

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|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 635332                |                          |                        | 22.98               |          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.98                 | 22.98                    | 22.98                  | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.84                 | 22.84                    | 22.84                  |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.96                 | 22.96                    | 22.96                  |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.94                 | 22.94                    | 22.95                  | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.93                 | 22.93                    | 22.94                  | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.94                 | 22.94                    | 22.94                  | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.91                 | 22.91                    | 22.91                  | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 23.01                 | 23.01                    | 23.01                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.91                 | 22.91                    | 22.91                  |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.08                 | 22.08                    | 22.08                  | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         | 21.96                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 22.85                 | 22.85                    | 22.84                  |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 22.94                 | 22.94                    | 22.94                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 21.96                 | 21.96                    | 21.96                  | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         | 22.04                 | 22.04                    | 22.04                  | 23.0                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 20.51                 | 20.51                    | 20.51                  | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 18.42                 | 18.42                    | 18.42                  | 19.5                | 4.5      |  |
| Channel                |            |         |           | 630000                | 635332                   | 638866                 | Tune-up limit (dBm) | (dB)     |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 22.85                 | 22.85                    | 22.89                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 632668                | 635332                   | 638000                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3495.1012             | 3499.98                  | 3504.98                | Tune-up limit (dBm) | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.91                 | 22.94                    | 22.93                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 632354                | 635332                   | 634352                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3495.01               | 3499.98                  | 3514.98                | Tune-up limit (dBm) | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.86                 | 22.86                    | 22.87                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 632000                | 635332                   | 636064                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3519.98                | Tune-up limit (dBm) | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 22.94                 | 22.99                    | 22.87                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 635332                   | 636500                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3495.12               | 3499.98                  | 3525                   | Tune-up limit (dBm) | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.93                 | 22.88                    | 22.92                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 631334                | 635332                   | 635332                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | Tune-up limit (dBm) | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.83                 | 22.95                    | 22.93                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 631000                | 635332                   | 635664                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | Tune-up limit (dBm) | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.86                 | 22.96                    | 22.88                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 635332                   | 636800                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3480.98               | 3499.98                  | 3540                   | Tune-up limit (dBm) | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 22.88                 | 23.00                    | 22.92                  | 24.0                | MPR (dB) |  |
| Channel                |            |         |           | 630500                | 635332                   | 636166                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                | Tune-up limit (dBm) | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.96                 | 22.95                    | 22.91                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630200                | 635332                   | 635832                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3544.98                | Tune-up limit (dBm) | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 22.84                 | 22.99                    | 22.92                  | 24.0                | 0.0      |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 65000                 | 65000                    | 65000                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 22.97                 | 23.03                    | 22.91                  | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 137       | 23.04                 | 23.07                    | 23.04                  |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       | 22.95                 | 22.96                    | 22.91                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 22.34                 | 22.38                    | 22.36                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        | 22.92                 | 23.02                    | 22.87                  | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 22.40                 | 22.43                    | 22.34                  | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 22.26                 | 22.41                    | 22.38                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 23.01                 | 23.08                    | 23.04                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 22.99                 | 23.07                    | 23.01                  |                     |          |
| 100             | QPSK       | 1       | 271       | 22.98                 | 23.02                    | 22.87                  |                     |          |
| 100             | QPSK       | 135     | 0         | 21.94                 | 21.94                    | 21.86                  |                     |          |
| 100             | QPSK       | 135     | 69        | 22.85                 | 22.97                    | 22.94                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 21.90                 | 21.95                    | 21.86                  |                     |          |
| 100             | QPSK       | 270     | 0         | 21.73                 | 21.87                    | 21.76                  | 23.0                | 1.0      |
| 100             | 8QAM       | 1       | 1         | 21.96                 | 22.11                    | 22.08                  | 23.0                | 1.0      |
| 100             | 8QAM       | 1       | 1         | 20.44                 | 20.56                    | 20.49                  | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 4.5      |
| Channel         |            |         |           | 649668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3743.02               | 3840                     | 3934.98                | (dBm)               | (dB)     |
| 90              | QPSK       | 1       | 1         | 22.96                 | 23.08                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                | (dBm)               | (dB)     |
| 80              | QPSK       | 1       | 1         | 22.33                 | 23.01                    | 22.91                  | 24.0                | 0.0      |
| Channel         |            |         |           | 645000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   | (dBm)               | (dB)     |
| 70              | QPSK       | 1       | 1         | 22.86                 | 22.94                    | 22.90                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648989                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3940.98                | (dBm)               | (dB)     |
| 60              | QPSK       | 1       | 1         | 22.96                 | 23.05                    | 22.87                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3740                     | 3944.99                | (dBm)               | (dB)     |
| 50              | QPSK       | 1       | 1         | 22.53                 | 23.05                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   | (dBm)               | (dB)     |
| 40              | QPSK       | 1       | 1         | 22.87                 | 23.03                    | 22.93                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3964.98                | (dBm)               | (dB)     |
| 30              | QPSK       | 1       | 1         | 22.92                 | 23.07                    | 22.93                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                | (dBm)               | (dB)     |
| 20              | QPSK       | 1       | 1         | 22.89                 | 23.02                    | 22.88                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                | (dBm)               | (dB)     |
| 15              | QPSK       | 1       | 1         | 22.83                 | 23.04                    | 22.97                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   | (dBm)               | (dB)     |
| 10              | QPSK       | 1       | 1         | 22.84                 | 23.08                    | 22.89                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3489.98               |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 137       | 22.77                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       | 22.72                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 22.75                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        | 22.69                 |                          |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 22.72                 |                          |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 22.76                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.81                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 22.75                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 271       | 22.71                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 22.70                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 69        | 22.73                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.48                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 22.64                 |                          |                        | 24.0                | 0.0      |
| 100             | 8QAM       | 1       | 1         | 22.69                 |                          |                        | 24.0                | 0.0      |
| 100             | 8QAM       | 1       | 1         | 22.43                 |                          |                        | 24.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 21.08                 |                          |                        | 22.5                | 1.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3486                  | 3489.98                  | 3524.99                | (dBm)               | (dB)     |
| 90              | QPSK       | 1       | 1         | 22.88                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480.02               | 3489.98                  | 3510                   | (dBm)               | (dB)     |
| 80              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3489.98                  | 3514.98                | (dBm)               | (dB)     |
| 70              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3489.98                  | 3519.98                | (dBm)               | (dB)     |
| 60              | QPSK       | 1       | 1         | 22.84                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3489.98                  | 3525                   | (dBm)               | (dB)     |
| 50              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3489.98                  | 3529.98                | (dBm)               | (dB)     |
| 40              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3489.98                  | 3534.98                | (dBm)               | (dB)     |
| 30              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3489.98                  | 3540                   | (dBm)               | (dB)     |
| 20              | QPSK       | 1       | 1         | 22.88                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 630800                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3489.98                  | 3542.48                | (dBm)               | (dB)     |
| 15              | QPSK       | 1       | 1         | 22.81                 |                          |                        | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3489.98                  | 3544.98                | (dBm)               | (dB)     |
| 10              | QPSK       | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |

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| BW [MHz] | Modulation      | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|----------|-----------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 649000                | 650000                   | 652000                 |                     |          |
| 100      | Pl2 BPSK        | 1       | 1         | 22.87                 | 22.82                    | 22.76                  | 24.0                | 0.0      |
| 100      | Pl2 BPSK        | 1       | 137       | 22.90                 | 22.87                    | 22.81                  |                     |          |
| 100      | Pl2 BPSK        | 1       | 271       | 22.87                 | 22.87                    | 22.76                  |                     |          |
| 100      | Pl2 BPSK        | 135     | 0         | 22.88                 | 22.88                    | 22.79                  |                     |          |
| 100      | Pl2 BPSK        | 135     | 69        | 22.93                 | 22.90                    | 22.79                  | 24.0                | 0.0      |
| 100      | Pl2 BPSK        | 135     | 138       | 22.87                 | 22.86                    | 22.81                  | 24.0                | 0.0      |
| 100      | Pl2 BPSK        | 270     | 0         | 22.86                 | 22.87                    | 22.75                  | 24.0                | 0.0      |
| 100      | QPSK            | 1       | 1         | 22.98                 | 22.93                    | 22.84                  | 24.0                | 0.0      |
| 100      | QPSK            | 1       | 137       | 22.98                 | 22.82                    | 22.80                  |                     |          |
| 100      | QPSK            | 1       | 271       | 22.91                 | 22.85                    | 22.78                  |                     |          |
| 100      | QPSK            | 135     | 0         | 22.86                 | 22.83                    | 22.73                  |                     |          |
| 100      | QPSK            | 135     | 69        | 22.90                 | 22.85                    | 22.75                  | 24.0                | 0.0      |
| 100      | QPSK            | 135     | 138       | 22.82                 | 22.85                    | 22.77                  |                     |          |
| 100      | QPSK            | 270     | 0         | 22.88                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 100      | 16QAM           | 1       | 1         | 22.86                 | 22.87                    | 22.74                  | 24.0                | 0.0      |
| 100      | 64QAM           | 1       | 1         | 22.90                 | 22.85                    | 22.79                  | 24.0                | 0.0      |
| 100      | 256QAM          | 1       | 1         | 21.89                 | 22.00                    | 21.96                  | 23.0                | 1.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 649668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3743.02               | 3840                     | 3934.98                | (dBm)               | (dB)     |
| 90       | QPSK            | 1       | 1         | 22.88                 | 22.86                    | 22.78                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3740.01               | 3840                     | 3938.99                | (dBm)               | (dB)     |
| 80       | QPSK            | 1       | 1         | 22.67                 | 22.80                    | 22.77                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 645000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3735                  | 3840                     | 3945                   | (dBm)               | (dB)     |
| 70       | QPSK            | 1       | 1         | 22.85                 | 22.78                    | 22.77                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 648989                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3730.02               | 3840                     | 3940.98                | (dBm)               | (dB)     |
| 60       | QPSK            | 1       | 1         | 22.84                 | 22.86                    | 22.73                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3725.01               | 3840                     | 3944.99                | (dBm)               | (dB)     |
| 50       | QPSK            | 1       | 1         | 22.53                 | 23.00                    | 22.79                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3720                  | 3840                     | 3960                   | (dBm)               | (dB)     |
| 40       | QPSK            | 1       | 1         | 22.91                 | 22.82                    | 22.76                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 647000                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3715.02               | 3840                     | 3964.98                | (dBm)               | (dB)     |
| 30       | QPSK            | 1       | 1         | 22.97                 | 22.80                    | 22.77                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3710.01               | 3840                     | 3969.99                | (dBm)               | (dB)     |
| 20       | QPSK            | 1       | 1         | 22.78                 | 22.86                    | 22.69                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 647186                | 650000                   | 654832                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3707.82               | 3840                     | 3967.82                | (dBm)               | (dB)     |
| 15       | QPSK            | 1       | 1         | 22.91                 | 22.86                    | 22.69                  | 24.0                | 0.0      |
| Channel  |                 |         |           |                       |                          |                        |                     |          |
|          | Frequency (MHz) |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |
|          | Frequency (MHz) |         |           | 3706                  | 3840                     | 3966                   | (dBm)               | (dB)     |
| 10       | QPSK            | 1       | 1         | 22.95                 | 22.80                    | 22.72                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| Channel         |            |         |           | 630000                |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 26.12                    |                        | 27.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 26.03                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 26.08                    |                        | 26.5                | 0.5      |     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 26.02                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 26.01                    |                        | 27.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 25.97                    |                        | 26.5                | 0.5      |     |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 25.91                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 1         |                       | 26.15                    |                        | 27.0                | 0.0      |     |
| 100             | QPSK       | 1       | 137       |                       | 26.03                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 271       |                       | 26.11                    |                        | 27.0                | 0.0      |     |
| 100             | QPSK       | 135     | 0         |                       | 26.06                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 69        |                       | 25.92                    |                        | 26.0                | 1.0      |     |
| 100             | QPSK       | 135     | 138       |                       | 25.42                    |                        |                     |          |     |
| 100             | QPSK       | 270     | 0         |                       | 25.21                    |                        | 26.0                | 1.0      |     |
| 100             | 8QAM       | 1       | 1         |                       | 26.91                    |                        | 24.5                | 2.5      |     |
| 100             | 8QAM       | 1       | 1         |                       | 23.31                    |                        | 22.5                | 4.5      |     |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3495                  | 3498.98                  | 3502.97                |                     |          |     |
| 90              | QPSK       | 1       | 1         |                       | 25.97                    | 26.00                  | 25.98               | 27.0     | 0.0 |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3480.02               | 3499.98                  | 3510                   |                     |          |     |
| 80              | QPSK       | 1       | 1         |                       | 26.31                    | 26.86                  | 26.96               | 27.0     | 0.0 |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |
| 70              | QPSK       | 1       | 1         |                       | 25.91                    | 25.84                  | 25.82               | 27.0     | 0.0 |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3479.02               | 3499.98                  | 3520                   |                     |          |     |
| 60              | QPSK       | 1       | 1         |                       | 25.78                    | 25.54                  | 25.83               | 27.0     | 0.0 |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3473.02               | 3499.98                  | 3525                   |                     |          |     |
| 50              | QPSK       | 1       | 1         |                       | 25.74                    | 25.64                  | 25.68               | 27.0     | 0.0 |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40              | QPSK       | 1       | 1         |                       | 25.67                    | 25.98                  | 25.67               | 27.0     | 0.0 |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |     |
| 30              | QPSK       | 1       | 1         |                       | 25.81                    | 25.81                  | 25.87               | 27.0     | 0.0 |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20              | QPSK       | 1       | 1         |                       | 25.88                    | 25.89                  | 25.79               | 27.0     | 0.0 |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |     |
| 15              | QPSK       | 1       | 1         |                       | 25.85                    | 25.87                  | 25.85               | 27.0     | 0.0 |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10              | QPSK       | 1       | 1         |                       | 25.88                    | 25.82                  | 25.97               | 27.0     | 0.0 |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. [dBm] | Power Middle Ch. / Freq. [dBm] | Power High Ch. / Freq. [dBm] | Tune-up limit (dBm) | MPR (dB) |     |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|----------|-----|
| Channel         |            |         |           | 650000                      |                                |                              |                     |          |     |
| Frequency (MHz) |            |         |           | 3790                        | 3840                           | 3900                         |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 1         |                             | 25.82                          | 25.89                        | 25.76               | 27.0     | 0.0 |
| 100             | Pl2 BPSK   | 1       | 137       |                             | 25.84                          | 25.89                        | 25.74               |          |     |
| 100             | Pl2 BPSK   | 1       | 271       |                             | 25.90                          | 25.86                        | 25.83               | 26.5     | 0.5 |
| 100             | Pl2 BPSK   | 135     | 0         |                             | 25.73                          | 25.62                        | 25.68               |          |     |
| 100             | Pl2 BPSK   | 135     | 69        |                             | 25.78                          | 25.69                        | 25.72               | 27.0     | 0.0 |
| 100             | Pl2 BPSK   | 135     | 138       |                             | 25.77                          | 25.71                        | 25.66               | 26.5     | 0.5 |
| 100             | Pl2 BPSK   | 270     | 0         |                             | 25.66                          | 25.61                        | 25.63               |          |     |
| 100             | QPSK       | 1       | 1         |                             | 25.91                          | 25.88                        | 25.77               | 27.0     | 0.0 |
| 100             | QPSK       | 1       | 137       |                             | 25.85                          | 25.86                        | 25.70               |          |     |
| 100             | QPSK       | 1       | 271       |                             | 25.90                          | 25.73                        | 25.65               | 27.0     | 0.0 |
| 100             | QPSK       | 135     | 0         |                             | 26.25                          | 26.02                        | 26.06               |          |     |
| 100             | QPSK       | 135     | 69        |                             | 25.72                          | 25.92                        | 25.90               | 26.0     | 1.0 |
| 100             | QPSK       | 135     | 138       |                             | 26.33                          | 25.13                        | 25.08               |          |     |
| 100             | QPSK       | 270     | 0         |                             | 25.24                          | 24.88                        | 24.82               | 26.0     | 1.0 |
| 100             | 8QAM       | 1       | 1         |                             | 25.39                          | 24.77                        | 24.73               | 24.5     | 2.5 |
| 100             | 8QAM       | 1       | 1         |                             | 23.94                          | 23.45                        | 23.39               | 22.5     | 4.5 |
| 100             | 256QAM     | 1       | 1         |                             | 21.89                          | 22.00                        | 21.96               | 22.5     | 4.5 |
| Channel         |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3745.02                     | 3840                           | 3934.98                      |                     |          |     |
| 90              | QPSK       | 1       | 1         |                             | 25.83                          | 25.70                        | 25.76               | 27.0     | 0.0 |
| Channel         |            |         |           | 649334                      | 650000                         | 650666                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3740.01                     | 3840                           | 3939.98                      |                     |          |     |
| 80              | QPSK       | 1       | 1         |                             | 25.78                          | 25.74                        | 25.68               | 27.0     | 0.0 |
| Channel         |            |         |           | 649000                      | 650000                         | 650500                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3735                        | 3840                           | 3945                         |                     |          |     |
| 70              | QPSK       | 1       | 1         |                             | 25.73                          | 25.72                        | 25.69               | 27.0     | 0.0 |
| Channel         |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3729.02                     | 3840                           | 3949.98                      |                     |          |     |
| 60              | QPSK       | 1       | 1         |                             | 25.74                          | 25.86                        | 25.65               | 27.0     | 0.0 |
| Channel         |            |         |           | 648334                      | 650000                         | 650666                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3724.01                     | 3940                           | 3954.98                      |                     |          |     |
| 50              | QPSK       | 1       | 1         |                             | 25.78                          | 25.82                        | 25.63               | 27.0     | 0.0 |
| Channel         |            |         |           | 648000                      | 650000                         | 650400                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3720                        | 3840                           | 3960                         |                     |          |     |
| 40              | QPSK       | 1       | 1         |                             | 25.77                          | 25.77                        | 25.65               | 27.0     | 0.0 |
| Channel         |            |         |           | 647668                      | 650000                         | 650666                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3719.02                     | 3840                           | 3964.98                      |                     |          |     |
| 30              | QPSK       | 1       | 1         |                             | 25.85                          | 25.87                        | 25.58               | 27.0     | 0.0 |
| Channel         |            |         |           | 647334                      | 650000                         | 650666                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3714.01                     | 3940                           | 3969.98                      |                     |          |     |
| 20              | QPSK       | 1       | 1         |                             | 25.75                          | 25.70                        | 25.72               | 27.0     | 0.0 |
| Channel         |            |         |           | 647000                      | 650000                         | 650500                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3705                        | 3840                           | 3975                         |                     |          |     |
| 15              | QPSK       | 1       | 1         |                             | 25.78                          | 25.71                        | 25.67               | 27.0     | 0.0 |
| Channel         |            |         |           | 646668                      | 650000                         | 650332                       | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3700                        | 3840                           | 3975                         |                     |          |     |
| 10              | QPSK       | 1       | 1         |                             | 25.71                          | 25.87                        | 25.65               | 27.0     | 0.0 |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| Channel         |            |         |           | 633332                |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 26.86                    |                        | 22.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 26.89                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 26.81                    |                        | 22.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 26.89                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 26.85                    |                        | 22.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 26.88                    |                        | 22.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 26.82                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 1         |                       | 26.91                    |                        | 22.0                | 0.0      |     |
| 100             | QPSK       | 1       | 137       |                       | 26.89                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 271       |                       | 26.86                    |                        | 22.0                | 0.0      |     |
| 100             | QPSK       | 135     | 0         |                       | 26.87                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 69        |                       | 26.88                    |                        | 22.0                | 0.0      |     |
| 100             | QPSK       | 135     | 138       |                       | 26.85                    |                        |                     |          |     |
| 100             | QPSK       | 270     | 0         |                       | 26.85                    |                        | 22.0                | 0.0      |     |
| 100             | 16QAM      | 1       | 1         |                       | 26.84                    |                        | 22.0                | 0.0      |     |
| 100             | 16QAM      | 1       | 1         |                       | 26.38                    |                        | 21.5                | 0.5      |     |
| 100             | 256QAM     | 1       | 1         |                       | 18.47                    |                        | 18.5                | 2.5      |     |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3495                  | 3498.98                  | 3504.99                |                     |          |     |
| 90              | QPSK       | 1       | 1         |                       | 26.80                    | 26.87                  | 26.76               | 22.0     | 0.0 |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3480.02               | 3499.98                  | 3510                   |                     |          |     |
| 80              | QPSK       | 1       | 1         |                       | 26.77                    | 26.88                  | 26.77               | 22.0     | 0.0 |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |
| 70              | QPSK       | 1       | 1         |                       | 26.79                    | 26.83                  | 26.71               | 22.0     | 0.0 |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |     |
| 60              | QPSK       | 1       | 1         |                       | 26.78                    | 26.84                  | 26.74               | 22.0     | 0.0 |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3474.02               | 3499.98                  | 3525                   |                     |          |     |
| 50              | QPSK       | 1       | 1         |                       | 26.73                    | 26.87                  | 26.74               | 22.0     | 0.0 |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40              | QPSK       | 1       | 1         |                       | 26.78                    | 26.81                  | 26.71               | 22.0     | 0.0 |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |     |
| 30              | QPSK       | 1       | 1         |                       | 26.76                    | 26.87                  | 26.74               | 22.0     | 0.0 |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20              | QPSK       | 1       | 1         |                       | 26.62                    | 26.68                  | 26.71               | 22.0     | 0.0 |
| Channel         |            |         |           | 630336                | 633332                   | 636336                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |     |
| 15              | QPSK       | 1       | 1         |                       | 26.52                    | 26.59                  | 26.78               | 22.0     | 0.0 |
| Channel         |            |         |           | 630004                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3453.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10              | QPSK       | 1       | 1         |                       | 26.52                    | 26.69                  | 26.78               | 22.0     | 0.0 |

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|-------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 65000               | 65000                  | 65000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3750                | 3840                   | 3930                 |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.29               | 20.41                  | 20.34                | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.27               | 20.39                  | 20.34                |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.24               | 20.37                  | 20.37                |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.25               | 20.44                  | 20.36                | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.30               | 20.40                  | 20.34                | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.27               | 20.44                  | 20.30                | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.26               | 20.39                  | 20.37                | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 20.33               | 20.46                  | 20.40                | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 137       | 20.29               | 20.36                  | 20.31                |                     |          |  |
| 100               | QPSK       | 1       | 271       | 20.34               | 20.41                  | 20.34                |                     |          |  |
| 100               | QPSK       | 135     | 0         | 20.26               | 20.41                  | 20.36                | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 20.30               | 20.45                  | 20.35                |                     |          |  |
| 100               | QPSK       | 135     | 138       | 20.27               | 20.36                  | 20.33                |                     |          |  |
| 100               | QPSK       | 270     | 0         | 20.31               | 20.43                  | 20.31                | 22.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 20.23               | 20.44                  | 20.33                | 22.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 19.84               | 19.91                  | 19.89                | 21.5                | 0.5      |  |
| 100               | 256QAM     | 1       | 1         | 17.80               | 17.86                  | 17.93                | 19.5                | 2.5      |  |
| Channel           |            |         |           | 649668              | 650000                 | 652332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3745.02             | 3840                   | 3934.98              | (dB)                | (dB)     |  |
| 90                | QPSK       | 1       | 1         | 20.23               | 20.37                  | 20.30                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334              | 650000                 | 662666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.01             | 3840                   | 3939.99              | (dBm)               | (dB)     |  |
| 80                | QPSK       | 1       | 1         | 20.30               | 20.36                  | 20.34                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 649000              | 650000                 | 650000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3735                | 3840                   | 3945                 | (dBm)               | (dB)     |  |
| 70                | QPSK       | 1       | 1         | 20.23               | 20.40                  | 20.30                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334              | 650000                 | 663332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3725.01             | 3840                   | 3954.99              | (dBm)               | (dB)     |  |
| 60                | QPSK       | 1       | 1         | 20.24               | 20.41                  | 20.33                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334              | 650000                 | 663666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3720.02             | 3840                   | 3949.98              | (dBm)               | (dB)     |  |
| 50                | QPSK       | 1       | 1         | 20.25               | 20.39                  | 20.32                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000              | 650000                 | 664000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3720                | 3840                   | 3960                 | (dBm)               | (dB)     |  |
| 40                | QPSK       | 1       | 1         | 20.28               | 20.41                  | 20.33                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647000              | 650000                 | 664332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3715.02             | 3840                   | 3964.98              | (dBm)               | (dB)     |  |
| 30                | QPSK       | 1       | 1         | 20.31               | 20.37                  | 20.33                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647334              | 650000                 | 664666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3710.01             | 3840                   | 3969.99              | (dBm)               | (dB)     |  |
| 20                | QPSK       | 1       | 1         | 20.31               | 20.44                  | 20.36                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647168              | 650000                 | 664832               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3707.52             | 3840                   | 3972.48              | (dBm)               | (dB)     |  |
| 15                | QPSK       | 1       | 1         | 20.28               | 20.38                  | 20.30                | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647000              | 650000                 | 665000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3705                | 3840                   | 3975                 | (dBm)               | (dB)     |  |
| 10                | QPSK       | 1       | 1         | 20.28               | 20.38                  | 20.38                | 22.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                     |                        |                      |                     |          |  |
|------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633000              | 633332                 |                      | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3489.98             |                        |                      |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.86               |                        |                      | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.91               |                        |                      |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.82               |                        |                      |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.44               |                        |                      | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.89               |                        |                      | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.46               |                        |                      | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.33               |                        |                      | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 22.93               |                        |                      |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.47               |                        |                      |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.54               |                        |                      | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         | 21.86               |                        |                      |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 22.76               |                        |                      |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 21.85               |                        |                      | 23.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         | 21.78               |                        |                      | 21.5                | 2.5      |  |
| 100                    | 8QAM       | 1       | 1         | 21.95               |                        |                      | 18.5                | 4.5      |  |
| 100                    | 8QAM       | 1       | 1         | 20.38               |                        |                      | 633000              | 633666   |  |
| 100                    | 256QAM     | 1       | 1         | 18.47               |                        |                      |                     | 633666   |  |
| Channel                |            |         |           | 633000              | 633332                 | 633666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3486                | 3489.98                | 3514.98              | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 22.80               | 22.75                  | 22.78                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632668              | 633332                 | 634000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3490.02             | 3489.98                | 3515                 | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.83               | 22.88                  | 22.84                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632334              | 633332                 | 634332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3485.01             | 3489.98                | 3514.98              | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.74               | 22.87                  | 22.81                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000              | 633332                 | 634666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3480                | 3489.98                | 3515.98              | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 22.85               | 22.75                  | 22.79                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668              | 633332                 | 635000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3475.02             | 3489.98                | 3520                 | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.77               | 22.78                  | 22.88                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334              | 633332                 | 635332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3470.01             | 3489.98                | 3529.98              | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.73               | 22.74                  | 22.87                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000              | 633332                 | 635666               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3465                | 3489.98                | 3534.98              | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.85               | 22.82                  | 22.75                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668              | 633332                 | 636000               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3460.02             | 3489.98                | 3540                 | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 22.85               | 22.74                  | 22.86                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630300              | 633332                 | 636166               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3457.52             | 3489.98                | 3542.48              | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.83               | 22.82                  | 22.82                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630334              | 633332                 | 636332               | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3455.01             | 3489.98                | 3544.98              | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 22.84               | 22.86                  | 22.78                | 24.0                | 0.0      |  |

| Part27O_n77 HPUE_Ant 8 |            |         |           |                     |                        |                      |                     |          |  |
|------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000              | 650000                 | 662000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3750                | 3840                   | 3930                 |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.28               | 22.43                  | 22.29                | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.21               | 22.32                  | 22.28                |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.32               | 22.42                  | 22.39                |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 21.85               | 21.88                  | 21.79                | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.32               | 22.33                  | 22.32                | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 21.73               | 21.83                  | 21.81                | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 21.66               | 21.79                  | 21.68                | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 22.33               | 22.45                  | 22.43                |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.31               | 22.43                  | 22.35                |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.24               | 22.37                  | 22.22                | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         | 21.82               | 21.81                  | 21.77                |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 22.35               | 22.27                  | 22.15                |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 21.19               | 21.22                  | 21.08                | 23.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         | 21.09               | 21.16                  | 21.10                | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         | 21.50               | 21.57                  | 21.52                | 24.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 137       | 21.48               | 21.59                  | 21.51                |                     |          |  |
| 100                    | 16QAM      | 1       | 271       | 21.54               | 21.65                  | 21.56                |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 19.84               | 19.91                  | 19.89                | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 17.80               | 17.96                  | 17.93                | 19.5                | 4.5      |  |
| Channel                |            |         |           | 649698              | 650000                 | 662532               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3845.05             | 3840                   | 3954.95              |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 22.15               | 22.35                  | 22.34                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649334              | 650000                 | 662666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3821.81             | 3840                   | 3938.99              |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 22.21               | 22.41                  | 22.31                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 650000              | 650000                 | 663000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                | 3840                   | 3945                 |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 22.20               | 22.36                  | 22.35                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649471              | 650000                 | 663133               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02             | 3840                   | 3949.98              |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 22.21               | 22.38                  | 22.39                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649871              | 650000                 | 663896               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3765.01             | 3840                   | 3954.96              |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 22.25               | 22.36                  | 22.37                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649000              | 650000                 | 664000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                | 3840                   | 3960                 |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 22.12               | 22.44                  | 22.41                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647698              | 650000                 | 664532               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02             | 3840                   | 3964.98              |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 22.28               | 22.37                  | 22.34                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647335              | 650000                 | 664698               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01             | 3840                   | 3969.99              |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 22.22               | 22.38                  | 22.39                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647116              | 650000                 | 664832               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52             | 3840                   | 3972.48              |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 22.21               | 22.42                  | 22.41                | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000              | 650000                 | 665000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3706                | 3840                   | 3974                 |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 22.22               | 22.43                  | 22.42                | 24.0                | 0.0      |  |

| Part27Q_n78_Ant 4 |            |         |           |                      |                         |                       |                     |          |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332               |                         |                       |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98              |                         |                       |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                      | 22.69                   |                       |                     |          |
| 100               | PI2 BPSK   | 1       | 137       |                      | 22.66                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 271       |                      | 22.74                   |                       |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                      | 22.67                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        |                      | 22.67                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                      | 22.71                   |                       |                     |          |
| 100               | PI2 BPSK   | 270     | 0         |                      | 22.75                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 1         |                      | 22.78                   |                       |                     |          |
| 100               | QPSK       | 1       | 137       |                      | 22.73                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 271       |                      | 22.73                   |                       |                     |          |
| 100               | QPSK       | 135     | 0         |                      | 22.69                   |                       |                     |          |
| 100               | QPSK       | 135     | 69        |                      | 22.75                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 135     | 138       |                      | 22.69                   |                       |                     |          |
| 100               | QPSK       | 270     | 0         |                      | 22.74                   |                       | 24.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                      | 22.68                   |                       | 24.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                      | 22.85                   |                       | 24.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                      | 22.82                   |                       | 24.0                | 0.0      |
| Channel           |            |         |           | 633000               | 633332                  | 633996                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |
| 90                | QPSK       | 1       | 1         | 22.65                | 22.65                   | 22.71                 | 24.0                | 0.0      |
| Channel           |            |         |           | 630688               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490.02              | 3499.98                 | 3510                  |                     |          |
| 80                | QPSK       | 1       | 1         | 22.70                | 22.70                   | 22.65                 | 24.0                | 0.0      |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |
| 70                | QPSK       | 1       | 1         | 22.69                | 22.64                   | 22.62                 | 24.0                | 0.0      |
| Channel           |            |         |           | 632000               | 633332                  | 634996                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3480                 | 3499.98                 | 3519.99               |                     |          |
| 60                | QPSK       | 1       | 1         | 22.69                | 22.64                   | 22.68                 | 24.0                | 0.0      |
| Channel           |            |         |           | 631688               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02              | 3499.98                 | 3525                  |                     |          |
| 50                | QPSK       | 1       | 1         | 22.70                | 22.64                   | 22.70                 | 24.0                | 0.0      |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |
| 40                | QPSK       | 1       | 1         | 22.72                | 22.63                   | 22.65                 | 24.0                | 0.0      |
| Channel           |            |         |           | 630996               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                 | 3499.98                 | 3534.99               |                     |          |
| 30                | QPSK       | 1       | 1         | 22.73                | 22.71                   | 22.67                 | 24.0                | 0.0      |
| Channel           |            |         |           | 630688               | 633332                  | 636996                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |
| 20                | QPSK       | 1       | 1         | 22.75                | 22.68                   | 22.64                 | 24.0                | 0.0      |
| Channel           |            |         |           | 630500               | 633332                  | 636996                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.48               |                     |          |
| 15                | QPSK       | 1       | 1         | 22.66                | 22.70                   | 22.62                 | 24.0                | 0.0      |
| Channel           |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |
| 10                | QPSK       | 1       | 1         | 22.70                | 22.68                   | 22.62                 | 24.0                | 0.0      |

| Part27O_n78_Ant 4 |            |         |           |                      |                         |                       |                     |          |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           |                      | 650000                  |                       |                     |          |
| Frequency (MHz)   |            |         |           |                      | 3750                    |                       |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                      | 22.74                   |                       |                     |          |
| 100               | PI2 BPSK   | 1       | 137       |                      | 22.72                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 271       |                      | 22.78                   |                       |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                      | 22.72                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        |                      | 22.73                   |                       | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                      | 22.72                   |                       |                     |          |
| 100               | PI2 BPSK   | 270     | 0         |                      | 22.82                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 1         |                      | 22.84                   |                       |                     |          |
| 100               | QPSK       | 1       | 137       |                      | 22.74                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 271       |                      | 22.75                   |                       |                     |          |
| 100               | QPSK       | 135     | 0         |                      | 22.73                   |                       |                     |          |
| 100               | QPSK       | 135     | 69        |                      | 22.85                   |                       | 24.0                | 0.0      |
| 100               | QPSK       | 135     | 138       |                      | 22.79                   |                       |                     |          |
| 100               | QPSK       | 270     | 0         |                      | 22.78                   |                       | 24.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                      | 22.79                   |                       | 24.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                      | 22.82                   |                       | 24.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                      | 22.75                   |                       | 24.0                | 0.0      |
| Channel           |            |         |           | 649996               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |
| 90                | QPSK       | 1       | 1         | 22.62                | 22.71                   | 22.78                 | 24.0                | 0.0      |
| Channel           |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |
| 80                | QPSK       | 1       | 1         | 22.65                | 22.73                   | 22.76                 | 24.0                | 0.0      |
| Channel           |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |
| 70                | QPSK       | 1       | 1         | 22.62                | 22.78                   | 22.78                 | 24.0                | 0.0      |
| Channel           |            |         |           | 648996               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |
| 60                | QPSK       | 1       | 1         | 22.65                | 22.79                   | 22.76                 | 24.0                | 0.0      |
| Channel           |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |
| 50                | QPSK       | 1       | 1         | 22.65                | 22.77                   | 22.78                 | 24.0                | 0.0      |
| Channel           |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3760                  |                     |          |
| 40                | QPSK       | 1       | 1         | 22.64                | 22.75                   | 22.78                 | 24.0                | 0.0      |
| Channel           |            |         |           | 647688               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |
| 30                | QPSK       | 1       | 1         | 22.69                | 22.74                   | 22.74                 | 24.0                | 0.0      |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |
| 20                | QPSK       | 1       | 1         | 22.68                | 22.74                   | 22.76                 | 24.0                | 0.0      |
| Channel           |            |         |           | 647168               | 650000                  | 652932                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |
| 15                | QPSK       | 1       | 1         | 22.71                | 22.74                   | 22.72                 | 24.0                | 0.0      |
| Channel           |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |
| 10                | QPSK       | 1       | 1         | 22.62                | 22.74                   | 22.73                 | 24.0                | 0.0      |



| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 633332                |                          |                        | 3499.98             |          |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 25.85                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 25.79                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 25.85                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 25.70                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 25.83                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 25.78                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 25.73                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 1       | 1         |                       | 25.90                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 1       | 137       |                       | 25.81                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 271       |                       | 25.86                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 25.74                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 135     | 69        |                       | 25.83                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 138       |                       | 25.33                    |                        |                     |          |     |
| 100                    | QPSK       | 270     | 0         |                       | 25.80                    |                        | 27.0                | 0.0      |     |
| 100                    | 6QAM       | 1       | 1         |                       | 25.83                    |                        | 27.0                | 0.0      |     |
| 100                    | 6QAM       | 1       | 1         |                       | 25.56                    |                        | 26.5                | 0.5      |     |
| 100                    | 256QAM     | 1       | 1         |                       | 23.46                    |                        | 24.5                | 2.5      |     |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |     |
| 90                     | QPSK       | 1       | 1         |                       | 25.31                    | 25.37                  | 25.30               | 27.0     | 0.0 |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3480.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |     |
| 80                     | QPSK       | 1       | 1         |                       | 26.31                    | 26.33                  | 26.37               | 27.0     | 0.0 |
| Channel                |            |         |           | 632334                | 633332                   | 634334                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |     |
| 70                     | QPSK       | 1       | 1         |                       | 25.36                    | 25.32                  | 25.32               | 27.0     | 0.0 |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3479.02               | 3499.98                  | 3505                   | (dBm)               | (dB)     |     |
| 60                     | QPSK       | 1       | 1         |                       | 25.29                    | 25.33                  | 25.28               | 27.0     | 0.0 |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3473.02               | 3499.98                  | 3505                   | (dBm)               | (dB)     |     |
| 50                     | QPSK       | 1       | 1         |                       | 25.24                    | 25.37                  | 25.33               | 27.0     | 0.0 |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |     |
| 40                     | QPSK       | 1       | 1         |                       | 25.29                    | 25.32                  | 25.30               | 27.0     | 0.0 |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |     |
| 30                     | QPSK       | 1       | 1         |                       | 25.36                    | 25.28                  | 25.28               | 27.0     | 0.0 |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |     |
| 20                     | QPSK       | 1       | 1         |                       | 25.36                    | 25.30                  | 25.28               | 27.0     | 0.0 |
| Channel                |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |     |
| 15                     | QPSK       | 1       | 1         |                       | 25.29                    | 25.37                  | 25.29               | 27.0     | 0.0 |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |     |
| 10                     | QPSK       | 1       | 1         |                       | 25.30                    | 25.37                  | 25.30               | 27.0     | 0.0 |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 3795                  |                          |                        |                     |          |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 25.80                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 25.72                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 25.77                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 25.66                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 25.75                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 25.72                    |                        | 27.0                | 0.0      |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 25.69                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 1       | 1         |                       | 25.81                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 1       | 137       |                       | 25.79                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 271       |                       | 25.76                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 25.70                    |                        | 27.0                | 0.0      |     |
| 100                    | QPSK       | 135     | 69        |                       | 25.75                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 138       |                       | 25.69                    |                        |                     |          |     |
| 100                    | QPSK       | 270     | 0         |                       | 25.70                    |                        | 27.0                | 0.0      |     |
| 100                    | 6QAM       | 1       | 1         |                       | 25.71                    |                        | 27.0                | 0.0      |     |
| 100                    | 6QAM       | 1       | 1         |                       | 25.30                    |                        | 26.5                | 0.5      |     |
| 100                    | 256QAM     | 1       | 1         |                       | 23.37                    |                        | 24.5                | 2.5      |     |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |     |
| 90                     | QPSK       | 1       | 1         |                       | 25.73                    | 25.74                  | 25.76               | 27.0     | 0.0 |
| Channel                |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |     |
| 80                     | QPSK       | 1       | 1         |                       | 25.72                    | 25.72                  | 25.78               | 27.0     | 0.0 |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |     |
| 70                     | QPSK       | 1       | 1         |                       | 25.73                    | 25.74                  | 25.71               | 27.0     | 0.0 |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3732.01               | 3750                     | 3761.98                | (dBm)               | (dB)     |     |
| 60                     | QPSK       | 1       | 1         |                       | 25.72                    | 25.76                  | 25.76               | 27.0     | 0.0 |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3729.01               | 3750                     | 3761.98                | (dBm)               | (dB)     |     |
| 50                     | QPSK       | 1       | 1         |                       | 25.71                    | 25.72                  | 25.72               | 27.0     | 0.0 |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |     |
| 40                     | QPSK       | 1       | 1         |                       | 25.78                    | 25.74                  | 25.71               | 27.0     | 0.0 |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3719.01               | 3750                     | 3786.98                | (dBm)               | (dB)     |     |
| 30                     | QPSK       | 1       | 1         |                       | 25.74                    | 25.75                  | 25.71               | 27.0     | 0.0 |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3716.01               | 3750                     | 3786.98                | (dBm)               | (dB)     |     |
| 20                     | QPSK       | 1       | 1         |                       | 25.71                    | 25.72                  | 25.76               | 27.0     | 0.0 |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3707.50               | 3750                     | 3792.48                | (dBm)               | (dB)     |     |
| 15                     | QPSK       | 1       | 1         |                       | 25.73                    | 25.72                  | 25.72               | 27.0     | 0.0 |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)        |            |         |           | 3700                  | 3750                     | 3798                   | (dBm)               | (dB)     |     |
| 10                     | QPSK       | 1       | 1         |                       | 25.78                    | 25.71                  | 25.75               | 27.0     | 0.0 |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 633332                |                          |                        | 3499.98             |          |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 26.72                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 26.83                    |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 26.80                    |                        |                     |          |     |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 26.82                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 26.87                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 26.79                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 26.77                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 1       | 1         |                       | 26.86                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 1       | 137       |                       | 26.79                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 271       |                       | 26.73                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         |                       | 26.80                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 135     | 69        |                       | 26.85                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 138       |                       | 26.70                    |                        |                     |          |     |
| 100               | QPSK       | 270     | 0         |                       | 26.83                    |                        | 22.0                | 0.0      |     |
| 100               | 6QAM       | 1       | 1         |                       | 26.81                    |                        | 22.0                | 0.0      |     |
| 100               | 6QAM       | 1       | 1         |                       | 19.25                    |                        | 22.0                | 0.0      |     |
| 100               | 256QAM     | 1       | 1         |                       | 26.85                    |                        | 20.5                | 1.5      |     |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |     |
| 90                | QPSK       | 1       | 1         |                       | 20.82                    | 20.80                  | 20.79               | 22.0     | 0.0 |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3480.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |     |
| 80                | QPSK       | 1       | 1         |                       | 20.77                    | 20.80                  | 20.87               | 22.0     | 0.0 |
| Channel           |            |         |           | 632334                | 633332                   | 634334                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |     |
| 70                | QPSK       | 1       | 1         |                       | 20.80                    | 20.78                  | 20.83               | 22.0     | 0.0 |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3479.02               | 3499.98                  | 3505                   | (dBm)               | (dB)     |     |
| 60                | QPSK       | 1       | 1         |                       | 20.81                    | 20.84                  | 20.82               | 22.0     | 0.0 |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3475.00               | 3499.98                  | 3509                   | (dBm)               | (dB)     |     |
| 50                | QPSK       | 1       | 1         |                       | 20.88                    | 20.84                  | 20.85               | 22.0     | 0.0 |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3508.98                | (dBm)               | (dB)     |     |
| 40                | QPSK       | 1       | 1         |                       | 20.76                    | 20.83                  | 20.76               | 22.0     | 0.0 |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3524.99                | (dBm)               | (dB)     |     |
| 30                | QPSK       | 1       | 1         |                       | 20.58                    | 20.68                  | 20.68               | 22.0     | 0.0 |
| Channel           |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3530                   | (dBm)               | (dB)     |     |
| 20                | QPSK       | 1       | 1         |                       | 20.40                    | 20.48                  | 20.45               | 22.0     | 0.0 |
| Channel           |            |         |           | 630330                | 633332                   | 636330                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dBm)               | (dB)     |     |
| 15                | QPSK       | 1       | 1         |                       | 20.76                    | 20.84                  | 20.87               | 22.0     | 0.0 |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3456.61               | 3499.98                  | 3544.86                | (dBm)               | (dB)     |     |
| 10                | QPSK       | 1       | 1         |                       | 20.80                    | 20.86                  | 20.85               | 22.0     | 0.0 |



| Part270_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 64000                 |                          |                        | 22.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3795                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 21.12                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 21.06                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 21.14                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 21.16                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 21.14                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 21.11                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 21.15                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 21.20                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 21.19                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 21.17                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 21.06                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 21.13                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 21.10                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 21.07                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 21.06                    |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.93                    |                        |                     |          |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.46                    |                        | 20.5                | 1.5      |  |
| Channel           |            |         |           | 64968                 | 65000                    | 65032                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3743.02               | 3750                     | 3763.98                | (dBm)               | (dB)     |  |
| 90                | QPSK       | 1       | 1         | 21.08                 | 21.09                    | 21.09                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64934                 | 65000                    | 65066                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                | QPSK       | 1       | 1         | 21.11                 | 21.12                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64900                 | 65000                    | 65100                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                | QPSK       | 1       | 1         | 21.14                 | 21.19                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64868                 | 65000                    | 65132                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3729.02               | 3750                     | 3763.98                | (dBm)               | (dB)     |  |
| 60                | QPSK       | 1       | 1         | 21.08                 | 21.15                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64834                 | 65000                    | 65166                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                | QPSK       | 1       | 1         | 21.16                 | 21.10                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64800                 | 65000                    | 65200                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                | QPSK       | 1       | 1         | 21.07                 | 21.08                    | 21.18                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64768                 | 65000                    | 65232                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                | QPSK       | 1       | 1         | 21.16                 | 21.16                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64734                 | 65000                    | 65266                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3719.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                | QPSK       | 1       | 1         | 21.15                 | 21.19                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64700                 | 65000                    | 65260                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3762.48                | (dBm)               | (dB)     |  |
| 15                | QPSK       | 1       | 1         | 21.08                 | 21.16                    | 21.16                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 64700                 | 65000                    | 65300                  | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                | QPSK       | 1       | 1         | 21.14                 | 21.08                    | 21.09                  | 22.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                       |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633332                |                       |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                       |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.71                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.72                 |                       |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.67                 |                       |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.69                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.74                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.18                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.06                 |                       |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 22.80                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       | 22.77                 |                       |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.22                 |                       |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 22.72                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 22.77                 |                       |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 21.40                 |                       |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 22.21                 |                       |                        | 23.5                | 0.5      |  |
| 100                    | 16QAM      | 1       | 1         | 22.76                 |                       |                        | 24.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.26                 |                       |                        | 22.5                | 1.5      |  |
| 100                    | 256QAM     | 1       | 1         | 19.25                 |                       |                        | 20.5                | 3.5      |  |
| Channel                |            |         |           | 633000                | 633332                | 633696                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98               | 3504.99                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 22.77                 | 22.74                 | 22.79                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480.02               | 3499.98               | 3510                   | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.08                 | 22.09                 | 22.70                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 633334                | 633332                | 633332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98               | 3514.98                | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.75                 | 22.76                 | 22.67                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                | 634696                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98               | 3510.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 22.71                 | 22.65                 | 22.75                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98               | 3520                   | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.77                 | 22.68                 | 22.70                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98               | 3529.98                | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.69                 | 22.66                 | 22.73                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98               | 3534.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.76                 | 22.65                 | 22.72                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98               | 3540                   | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 22.75                 | 22.66                 | 22.72                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630300                | 633332                | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98               | 3542.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.65                 | 22.70                 | 22.73                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630334                | 633332                | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98               | 3544.98                | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 22.73                 | 22.73                 | 22.75                  | 24.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 649000                |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3795                  |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.94                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 23.04                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.90                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.96                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 23.00                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 23.04                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.94                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 23.05                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       | 22.96                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.92                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 22.95                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 23.07                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 22.44                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 22.54                 |                          |                        | 23.5                | 0.5      |  |
| 100                    | 16QAM      | 1       | 1         | 22.85                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.23                 |                          |                        | 22.5                | 1.5      |  |
| 100                    | 256QAM     | 1       | 1         | 19.26                 |                          |                        | 20.5                | 3.5      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 22.91                 | 23.00                    | 22.95                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.81                 | 22.93                    | 22.93                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3795                     | 3795                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.95                 | 22.96                    | 22.96                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 23.04                 | 22.97                    | 22.97                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.99                 | 23.00                    | 22.93                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3795                     | 3795                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.96                 | 22.95                    | 22.95                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.90                 | 22.90                    | 22.90                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 23.00                 | 22.99                    | 22.91                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3795                     | 3795.98                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.99                 | 23.01                    | 22.95                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3795                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 23.04                 | 22.99                    | 22.95                  | 24.0                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 633300                |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 23.11                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 137       | 22.98                 |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 271       | 22.98                 |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 23.03                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 22.94                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 23.02                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 270     | 0         | 22.93                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 1         | 23.11                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       | 23.01                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 271       | 23.05                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 22.98                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 23.07                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       | 22.99                 |                          |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         | 22.89                 |                          |                        | 24.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 23.09                 |                          |                        | 24.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 22.96                 |                          |                        | 24.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 22.60                 |                          |                        | 23.5                | 0.5      |  |
| Channel            |            |         |           | 633000                | 633332                   | 633696                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.01                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3480.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.00                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 632324                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3465.01               | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 23.02                 | 23.01                    | 22.98                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 631980                | 633332                   | 634696                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3450.02               | 3499.98                  | 3531.99                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.05                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 631636                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3435.00               | 3499.98                  | 3525.00                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 23.08                 | 23.01                    | 22.96                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3420.01               | 3499.98                  | 3543.98                | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.02                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 631000                | 633332                   | 635696                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3405                  | 3499.98                  | 3554.99                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 23.08                 | 23.05                    | 22.96                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3400.02               | 3499.98                  | 3560                   | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 22.99                 | 23.07                    | 23.03                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 630300                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3405.5                | 3499.98                  | 3562.49                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 23.02                 | 23.03                    | 23.08                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3404.99               | 3499.98                  | 3564.98                | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 23.04                 | 22.98                    | 23.07                  | 24.0                | 0.0      |  |

| Part270_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 3795                  |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 22.93                 |                          |                        | 24.0                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       | 23.00                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 211       | 22.88                 |                          |                        | 24.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 0         | 22.91                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 69        | 23.00                 |                          |                        | 24.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       | 22.95                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 270     | 0         | 22.95                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 23.01                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       | 22.97                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 1       | 211       | 22.93                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 22.91                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 22.97                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       | 22.95                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 22.94                 |                          |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 22.96                 |                          |                        | 24.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 22.88                 |                          |                        |                     |          |  |
| 100                | 256QAM     | 1       | 1         | 22.54                 |                          |                        | 23.5                | 0.5      |  |
| Channel            |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3743.02               | 3750                     | 3763.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 22.80                 | 22.78                    | 22.81                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 22.82                 | 22.76                    | 22.79                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 22.80                 | 22.76                    | 22.87                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3733.02               | 3750                     | 3763.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 22.80                 | 22.79                    | 22.86                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3729.01               | 3750                     | 3771.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 22.82                 | 22.82                    | 22.84                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 22.83                 | 22.80                    | 22.84                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 22.84                 | 22.80                    | 22.82                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 22.76                 | 22.79                    | 22.85                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 647000                | 650000                   | 652832                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 22.82                 | 22.80                    | 22.81                  | 24.0                | 0.0      |  |
| Channel            |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 22.80                 | 22.79                    | 22.82                  | 24.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           | 630000                |                          | 633332                 | 27.0                | 0.0      |     |
| Frequency (MHz)         |            |         |           | 3499.98               |                          | 25.97                  |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 25.97                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 25.79                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 25.88                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 25.94                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 25.78                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 25.88                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 25.76                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 1         |                       | 25.03                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                       | 25.97                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 271       |                       | 25.94                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 0         |                       | 26.97                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                       | 25.98                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 135     | 138       |                       | 25.79                    |                        |                     |          |     |
| 100                     | QPSK       | 270     | 0         |                       | 25.96                    |                        | 26.5                | 0.5      |     |
| 100                     | 8QAM       | 1       | 1         |                       | 25.83                    |                        | 27.0                | 0.0      |     |
| 100                     | 8QAM       | 1       | 1         |                       | 24.70                    |                        | 25.5                | 1.5      |     |
| 100                     | 256QAM     | 1       | 1         |                       | 22.60                    |                        | 23.5                | 3.5      |     |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |     |
| 90                      | QPSK       | 1       | 1         |                       | 25.96                    | 25.97                  | 20.00               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3480.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |     |
| 80                      | QPSK       | 1       | 1         |                       | 25.97                    | 25.89                  | 20.00               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |     |
| 70                      | QPSK       | 1       | 1         |                       | 25.88                    | 25.89                  | 26.02               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3510.98                | (dBm)               | (dB)     |     |
| 60                      | QPSK       | 1       | 1         |                       | 26.00                    | 25.89                  | 25.92               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3520                   | (dBm)               | (dB)     |     |
| 50                      | QPSK       | 1       | 1         |                       | 25.94                    | 26.02                  | 26.02               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |     |
| 40                      | QPSK       | 1       | 1         |                       | 26.00                    | 26.00                  | 26.00               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |     |
| 30                      | QPSK       | 1       | 1         |                       | 25.97                    | 25.91                  | 26.02               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |     |
| 20                      | QPSK       | 1       | 1         |                       | 25.97                    | 25.90                  | 25.92               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630334                | 633332                   | 636336                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |     |
| 15                      | QPSK       | 1       | 1         |                       | 25.83                    | 25.86                  | 25.88               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |     |
| 10                      | QPSK       | 1       | 1         |                       | 25.95                    | 25.92                  | 25.98               | 27.0     | 0.0 |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           | 649668                |                          | 650000                 | 27.0                | 0.0      |     |
| Frequency (MHz)         |            |         |           | 3750                  |                          | 25.78                  |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 25.78                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 25.58                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 25.57                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 25.66                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 25.54                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 25.58                    |                        | 27.0                | 0.0      |     |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 25.52                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 1         |                       | 25.88                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                       | 25.79                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 271       |                       | 26.81                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 0         |                       | 26.71                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                       | 25.74                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 135     | 138       |                       | 25.70                    |                        |                     |          |     |
| 100                     | QPSK       | 270     | 0         |                       | 25.72                    |                        | 26.5                | 0.5      |     |
| 100                     | 8QAM       | 1       | 1         |                       | 26.57                    |                        | 27.0                | 0.0      |     |
| 100                     | 8QAM       | 1       | 1         |                       | 24.40                    |                        | 25.5                | 1.5      |     |
| 100                     | 256QAM     | 1       | 1         |                       | 22.37                    |                        | 23.5                | 3.5      |     |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |     |
| 90                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.88                  | 25.84               | 27.0     | 0.0 |
| Channel                 |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |     |
| 80                      | QPSK       | 1       | 1         |                       | 25.80                    | 25.86                  | 25.87               | 27.0     | 0.0 |
| Channel                 |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |     |
| 70                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.87                  | 25.85               | 27.0     | 0.0 |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3730.02               | 3750                     | 3763.98                | (dBm)               | (dB)     |     |
| 60                      | QPSK       | 1       | 1         |                       | 25.81                    | 25.80                  | 25.88               | 27.0     | 0.0 |
| Channel                 |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.98                | (dBm)               | (dB)     |     |
| 50                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.79                  | 25.85               | 27.0     | 0.0 |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |     |
| 40                      | QPSK       | 1       | 1         |                       | 25.74                    | 25.85                  | 25.84               | 27.0     | 0.0 |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3718.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |     |
| 30                      | QPSK       | 1       | 1         |                       | 25.81                    | 25.85                  | 25.74               | 27.0     | 0.0 |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3713.01               | 3750                     | 3789.98                | (dBm)               | (dB)     |     |
| 20                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.87                  | 25.78               | 27.0     | 0.0 |
| Channel                 |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |     |
| 10                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.87                  | 25.79               | 27.0     | 0.0 |

| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 630000                |                          | 633332                 | 22.0                | 0.0      |     |
| Frequency (MHz)   |            |         |           | 3499.98               |                          | 26.83                  |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 26.83                    |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 26.59                    |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 26.54                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 26.62                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 26.81                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 26.55                    |                        | 22.0                | 0.0      |     |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 26.58                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 1       | 1         |                       | 26.69                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 137       |                       | 26.63                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 1       | 271       |                       | 26.66                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         |                       | 26.65                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        |                       | 26.67                    |                        | 22.0                | 0.0      |     |
| 100               | QPSK       | 135     | 138       |                       | 26.58                    |                        |                     |          |     |
| 100               | QPSK       | 270     | 0         |                       | 26.60                    |                        | 22.0                | 0.0      |     |
| 100               | 16QAM      | 1       | 1         |                       | 26.54                    |                        | 22.0                | 0.0      |     |
| 100               | 64QAM      | 1       | 1         |                       | 19.17                    |                        | 21.5                | 0.5      |     |
| 100               | 256QAM     | 1       | 1         |                       | 19.17                    |                        | 19.5                | 2.5      |     |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |     |
| 90                | QPSK       | 1       | 1         |                       | 26.66                    | 26.54                  | 26.55               | 22.0     | 0.0 |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3480.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |     |
| 80                | QPSK       | 1       | 1         |                       | 26.66                    | 26.63                  | 26.64               | 22.0     | 0.0 |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |     |
| 70                | QPSK       | 1       | 1         |                       | 26.63                    | 26.55                  | 26.57               | 22.0     | 0.0 |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3510.98                | (dBm)               | (dB)     |     |
| 60                | QPSK       | 1       | 1         |                       | 26.55                    | 26.56                  | 26.66               | 22.0     | 0.0 |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3520                   | (dBm)               | (dB)     |     |
| 50                | QPSK       | 1       | 1         |                       | 26.57                    | 26.55                  | 26.68               | 22.0     | 0.0 |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3470.02               | 3499.98                  | 3520.98                | (dBm)               | (dB)     |     |
| 40                | QPSK       | 1       | 1         |                       | 26.66                    | 26.66                  | 26.68               | 22.0     | 0.0 |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3465.01               | 3499.98                  | 3524.99                | (dBm)               | (dB)     |     |
| 30                | QPSK       | 1       | 1         |                       | 26.55                    | 26.54                  | 26.68               | 22.0     | 0.0 |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |     |
| 20                | QPSK       | 1       | 1         |                       | 26.62                    | 26.60                  | 26.65               | 22.0     | 0.0 |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3542.99                | (dBm)               | (dB)     |     |
| 15                | QPSK       | 1       | 1         |                       | 26.54                    | 26.67                  | 26.83               | 22.0     | 0.0 |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |     |
| 10                | QPSK       | 1       | 1         |                       | 26.66                    | 26.63                  | 26.68               | 22.0     | 0.0 |

| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 3795                  |                          |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 1         | 21.10                 |                          |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 137       | 21.06                 |                          |                        | 22.0                |          | 0.0 |
| 100               | PI2 BPSK   | 1       | 271       | 21.12                 |                          |                        |                     |          |     |
| 100               | PI2 BPSK   | 135     | 0         | 21.06                 |                          |                        | 22.0                |          | 0.0 |
| 100               | PI2 BPSK   | 135     | 69        | 21.06                 |                          |                        | 22.0                |          | 0.0 |
| 100               | PI2 BPSK   | 135     | 138       | 21.15                 |                          |                        | 22.0                |          | 0.0 |
| 100               | PI2 BPSK   | 270     | 0         | 21.15                 |                          |                        |                     |          |     |
| 100               | QPSK       | 1       | 1         | 21.16                 |                          |                        |                     |          |     |
| 100               | QPSK       | 1       | 137       | 21.09                 |                          |                        | 22.0                |          | 0.0 |
| 100               | QPSK       | 1       | 271       | 21.11                 |                          |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         | 21.06                 |                          |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        | 21.10                 |                          |                        | 22.0                |          | 0.0 |
| 100               | QPSK       | 135     | 138       | 21.07                 |                          |                        |                     |          |     |
| 100               | QPSK       | 270     | 0         | 21.04                 |                          |                        | 22.0                |          | 0.0 |
| 100               | 16QAM      | 1       | 1         | 21.02                 |                          |                        | 22.0                |          | 0.0 |
| 100               | 64QAM      | 1       | 1         | 20.58                 |                          |                        | 21.5                |          | 0.5 |
| 100               | 256QAM     | 1       | 1         | 18.58                 |                          |                        | 19.5                |          | 2.5 |
| Channel           |            |         |           | 649680                | 650000                   | 650320                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3764.98                | (dBm)               | (dB)     |     |
| 90                | QPSK       | 1       | 1         | 21.11                 | 21.13                    | 21.01                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |     |
| 80                | QPSK       | 1       | 1         | 21.08                 | 21.14                    | 21.12                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |     |
| 70                | QPSK       | 1       | 1         | 21.07                 | 21.07                    | 21.01                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                | (dBm)               | (dB)     |     |
| 60                | QPSK       | 1       | 1         | 21.15                 | 21.07                    | 21.11                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3723.01               | 3750                     | 3771.99                | (dBm)               | (dB)     |     |
| 50                | QPSK       | 1       | 1         | 21.14                 | 21.14                    | 21.09                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |     |
| 40                | QPSK       | 1       | 1         | 21.10                 | 21.09                    | 21.12                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 641680                | 650000                   | 651332                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |     |
| 30                | QPSK       | 1       | 1         | 21.09                 | 21.11                    | 21.12                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |     |
| 20                | QPSK       | 1       | 1         | 21.14                 | 21.13                    | 21.04                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |     |
| 15                | QPSK       | 1       | 1         | 21.15                 | 21.10                    | 21.01                  | 22.0                | 0.0      |     |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |     |
| 10                | QPSK       | 1       | 1         | 21.03                 | 21.13                    | 21.09                  | 22.0                | 0.0      |     |

| Part27Q_n78 HPUe_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633000               |                         | 633332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3489.98              |                         |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                      | 22.64                   |                       | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                      | 22.54                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                      | 22.60                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                      | 22.55                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                      | 22.51                   |                       | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                      | 22.43                   |                       | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                      | 22.50                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                      | 22.73                   |                       | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                      | 22.64                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                      | 22.65                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                      | 22.47                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                      | 22.08                   |                       | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                      | 21.95                   |                       | 23.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         |                      | 22.20                   |                       |                     |          |  |
| 100                    | 8QAM       | 1       | 1         |                      | 22.36                   |                       | 23.0                | 1.0      |  |
| 100                    | 8QAM       | 1       | 1         |                      | 21.29                   |                       | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         |                      | 19.17                   |                       | 19.5                | 4.5      |  |
| Channel                |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3486                 | 3489.98                 | 3493.98               | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 22.70                | 22.66                   | 22.66                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630968               | 633332                  | 634000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3490.02              | 3493.98                 | 3515                  | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.71                | 22.58                   | 22.64                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 633334               | 633332                  | 634332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3485.01              | 3489.98                 | 3514.98               | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.62                | 22.60                   | 22.58                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000               | 633332                  | 633666                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3480                 | 3489.98                 | 3515.98               | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 22.59                | 22.71                   | 22.68                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3473.02              | 3489.98                 | 3505                  | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.64                | 22.63                   | 22.71                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3470.01              | 3499.98                 | 3529.98               | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.59                | 22.61                   | 22.67                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000               | 633332                  | 635998                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3465                 | 3489.98                 | 3534.98               | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.68                | 22.62                   | 22.71                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3460.02              | 3495.98                 | 3490                  | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 22.63                | 22.60                   | 22.70                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630300               | 633332                  | 636166                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3457.5               | 3489.98                 | 3542.48               | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.69                | 22.68                   | 22.72                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3455.01              | 3499.98                 | 3544.98               | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 22.65                | 22.66                   | 22.63                 | 24.0                | 0.0      |  |

| Part27O_n78 HPUe_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 649334               |                         | 650000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3765                 |                         |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                      | 23.05                   |                       | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                      | 22.98                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                      | 22.92                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                      | 22.48                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                      | 23.03                   |                       | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                      | 22.44                   |                       | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                      | 22.51                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                      | 23.12                   |                       | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                      | 23.06                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                      | 23.02                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                      | 22.96                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                      | 23.06                   |                       | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                      | 22.02                   |                       | 23.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         |                      | 22.09                   |                       |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                      | 22.13                   |                       | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         |                      | 20.58                   |                       | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         |                      | 18.58                   |                       | 19.5                | 4.5      |  |
| Channel                |            |         |           | 649668               | 650000                  | 650332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3765.02              | 3765                    | 3764.98               | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 23.05                | 22.98                   | 23.02                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3745.01              | 3765                    | 3759.98               | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 23.06                | 23.00                   | 23.02                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                 | 3765                    | 3765                  | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.98                | 23.03                   | 22.97                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648668               | 650000                  | 651332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720.02              | 3765                    | 3760.98               | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 23.03                | 23.00                   | 23.06                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01              | 3765                    | 3761.98               | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 23.03                | 23.10                   | 23.02                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                 | 3765                    | 3760                  | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 23.08                | 23.11                   | 23.09                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02              | 3765                    | 3764.98               | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 23.10                | 23.06                   | 23.10                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01              | 3765                    | 3760.98               | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 23.10                | 23.00                   | 23.04                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000               | 650000                  | 652832                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52              | 3765                    | 3762.48               | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 23.07                | 22.98                   | 23.04                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                 | 3765                    | 3765                  | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 23.03                | 23.07                   | 23.06                 | 24.0                | 0.0      |  |



Reduced Power Mode for DS12

| n2_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>372000 | Power Middle<br>Ch. F Freq.<br>376000 | Power High<br>Ch. F Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| Frequency (MHz) |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 23.18                              | 23.27                                 | 23.17                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 23.18                              | 23.28                                 | 23.18                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 23.24                              | 23.28                                 | 23.16                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 23.11                              | 23.15                                 | 23.09                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 23.06                              | 23.16                                 | 23.14                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 23.09                              | 23.19                                 | 23.16                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 23.16                              | 23.20                                 | 23.12                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 23.25                              | 23.30                                 | 23.22                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 23.24                              | 23.28                                 | 23.18                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 23.17                              | 23.24                                 | 23.20                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 22.73                              | 22.83                                 | 22.77                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 23.16                              | 23.19                                 | 23.13                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.82                                 | 22.76                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 23.03                              | 23.11                                 | 23.03                               | 24.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 23.05                              | 23.07                                 | 23.05                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 21.56                              | 21.62                                 | 21.52                               | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.48                              | 19.53                                 | 19.47                               | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1860.5                             | 1880                                  | 1902.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 23.18                              | 23.26                                 | 23.18                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1865                               | 1880                                  | 1905                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 23.22                              | 23.20                                 | 23.16                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1880                                  | 1907.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 23.15                              | 23.22                                 | 23.16                               | 24.0                   | 0.0         |  |

| n2_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>372000 | Power Middle<br>Ch. F Freq.<br>376000 | Power High<br>Ch. F Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| Frequency (MHz) |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 15.78                              | 15.81                                 | 15.86                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 15.81                              | 15.83                                 | 15.78                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 15.81                              | 15.85                                 | 15.78                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 15.79                              | 15.77                                 | 15.73                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 15.76                              | 15.76                                 | 15.78                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 15.73                              | 15.77                                 | 15.84                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 15.74                              | 15.81                                 | 15.75                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 15.85                              | 15.91                                 | 15.87                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 15.76                              | 15.77                                 | 15.83                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 15.72                              | 15.79                                 | 15.76                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 15.75                              | 15.83                                 | 15.73                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 15.81                              | 15.85                                 | 15.77                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 15.73                              | 15.80                                 | 15.68                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 15.74                              | 15.83                                 | 15.75                               | 17.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 15.77                              | 15.78                                 | 15.80                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 15.82                              | 15.90                                 | 15.80                               | 17.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 15.79                              | 15.80                                 | 15.75                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1867.5                             | 1880                                  | 1902.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 15.79                              | 15.79                                 | 15.82                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1865                               | 1880                                  | 1905                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 15.77                              | 15.77                                 | 15.86                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1880                                  | 1907.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 15.75                              | 15.88                                 | 15.74                               | 17.0                   | 0.0         |  |

| n5_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>166800 | Power Middle<br>Ch. F Freq.<br>167500 | Power High<br>Ch. F Freq.<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                | 836.5                                 | 839                                 |                        |             |  |
| Frequency (MHz) |            |         |           | 834                                | 836.5                                 | 839                                 |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.78                              | 22.82                                 | 22.80                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.89                              | 22.95                                 | 22.87                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.76                              | 22.86                                 | 22.78                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.78                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.90                              | 22.95                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.77                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.78                              | 22.88                                 | 22.83                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.95                              | 23.00                                 | 22.90                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.79                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.82                              | 22.85                                 | 22.76                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 22.76                              | 22.85                                 | 22.76                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.91                              | 22.96                                 | 22.92                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.86                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.87                              | 22.90                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 22.87                              | 22.92                                 | 22.87                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 21.61                              | 21.65                                 | 21.55                               | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.69                              | 19.71                                 | 19.67                               | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.78                              | 22.83                                 | 22.84                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166800                             | 167300                                | 168800                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 834                                | 836.5                                 | 844                                 |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.83                              | 22.98                                 | 22.76                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.83                              | 22.83                                 | 22.83                               | 24.0                   | 0.0         |  |

| n5_Ant 1        |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 20              | PQ2 BPSK   | 1       | 1         | 19.49                            | 19.56                               | 19.39                             | 20.5                   | 0.0         |  |  |  |
| 20              | PQ2 BPSK   | 1       | 53        | 19.38                            | 19.47                               | 19.33                             |                        |             |  |  |  |
| 20              | PQ2 BPSK   | 1       | 104       | 19.47                            | 19.47                               | 19.41                             |                        |             |  |  |  |
| 20              | PQ2 BPSK   | 50      | 0         | 19.45                            | 19.44                               | 19.38                             | 20.5                   | 0.0         |  |  |  |
| 20              | PQ2 BPSK   | 50      | 28        | 19.44                            | 19.47                               | 19.32                             | 20.5                   | 0.0         |  |  |  |
| 20              | PQ2 BPSK   | 50      | 56        | 19.38                            | 19.47                               | 19.31                             | 20.5                   | 0.0         |  |  |  |
| 20              | PQ2 BPSK   | 100     | 0         | 19.44                            | 19.50                               | 19.33                             |                        |             |  |  |  |
| 20              | QPSK       | 1       | 1         | 19.53                            | 19.57                               | 19.43                             |                        |             |  |  |  |
| 20              | QPSK       | 1       | 53        | 19.38                            | 19.47                               | 19.34                             | 20.5                   | 0.0         |  |  |  |
| 20              | QPSK       | 1       | 104       | 19.45                            | 19.45                               | 19.29                             | 20.5                   | 0.0         |  |  |  |
| 20              | QPSK       | 50      | 0         | 19.42                            | 19.47                               | 19.31                             |                        |             |  |  |  |
| 20              | QPSK       | 50      | 28        | 19.43                            | 19.55                               | 19.41                             |                        |             |  |  |  |
| 20              | QPSK       | 50      | 56        | 19.41                            | 19.45                               | 19.32                             | 20.5                   | 0.0         |  |  |  |
| 20              | QPSK       | 100     | 0         | 19.47                            | 19.50                               | 19.41                             |                        |             |  |  |  |
| 20              | 16QAM      | 1       | 1         | 19.45                            | 19.50                               | 19.28                             |                        |             |  |  |  |
| 20              | 64QAM      | 1       | 1         | 19.46                            | 19.53                               | 19.34                             | 20.5                   | 0.0         |  |  |  |
| 20              | 256QAM     | 1       | 1         | 19.38                            | 19.49                               | 19.38                             | 20.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 15              | QPSK       | 1       | 1         | 19.42                            | 19.51                               | 19.42                             | 20.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 10              | QPSK       | 1       | 1         | 19.40                            | 19.43                               | 19.33                             | 20.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 5               | QPSK       | 1       | 1         | 19.39                            | 19.55                               | 19.33                             | 20.5                   | 0.0         |  |  |  |

| n7_Ant 9        |            |         |           |                                  |                                     |                                   |                        |             |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 40              | PQ2 BPSK   | 1       | 1         | 22.88                            | 23.08                               | 23.05                             | 24.0                   | 0.0         |  |
| 40              | PQ2 BPSK   | 1       | 108       | 23.10                            | 23.24                               | 23.15                             |                        |             |  |
| 40              | PQ2 BPSK   | 1       | 214       | 23.07                            | 23.23                               | 23.21                             |                        |             |  |
| 40              | PQ2 BPSK   | 108     | 0         | 22.90                            | 23.05                               | 23.01                             | 24.0                   | 0.0         |  |
| 40              | PQ2 BPSK   | 108     | 54        | 22.99                            | 23.15                               | 23.10                             | 24.0                   | 0.0         |  |
| 40              | PQ2 BPSK   | 108     | 108       | 22.99                            | 23.12                               | 23.04                             | 24.0                   | 0.0         |  |
| 40              | PQ2 BPSK   | 216     | 0         | 22.99                            | 23.11                               | 23.07                             |                        |             |  |
| 40              | QPSK       | 1       | 1         | 23.11                            | 23.26                               | 23.22                             |                        |             |  |
| 40              | QPSK       | 1       | 108       | 22.86                            | 23.11                               | 23.03                             | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 23.07                            | 23.23                               | 23.20                             | 24.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 0         | 22.85                            | 23.05                               | 22.96                             |                        |             |  |
| 40              | QPSK       | 108     | 54        | 23.00                            | 23.20                               | 23.17                             |                        |             |  |
| 40              | QPSK       | 108     | 108       | 22.89                            | 23.09                               | 23.05                             | 24.0                   | 0.0         |  |
| 40              | QPSK       | 216     | 0         | 23.05                            | 23.18                               | 23.08                             |                        |             |  |
| 40              | 16QAM      | 1       | 1         | 23.13                            | 23.25                               | 23.23                             |                        |             |  |
| 40              | 64QAM      | 1       | 1         | 22.31                            | 22.51                               | 22.44                             | 23.0                   | 1.0         |  |
| 40              | 256QAM     | 1       | 1         | 20.29                            | 20.47                               | 20.37                             | 21.0                   | 3.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 30              | QPSK       | 1       | 1         | 23.04                            | 23.16                               | 23.14                             | 24.0                   | 0.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 25              | QPSK       | 1       | 1         | 23.09                            | 23.24                               | 23.18                             | 24.0                   | 0.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 20              | QPSK       | 1       | 1         | 23.05                            | 23.17                               | 23.19                             | 24.0                   | 0.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 15              | QPSK       | 1       | 1         | 23.04                            | 23.22                               | 23.13                             | 24.0                   | 0.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 10              | QPSK       | 1       | 1         | 23.01                            | 23.20                               | 23.16                             | 24.0                   | 0.0         |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |
| 5               | QPSK       | 1       | 1         | 23.07                            | 23.23                               | 23.19                             | 24.0                   | 0.0         |  |

| n7_Ant 1        |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 40              | PQ2 BPSK   | 1       | 1         | 14.45                            | 14.49                               | 14.38                             | 15.5                   | 0.0         |  |  |  |
| 40              | PQ2 BPSK   | 1       | 108       | 14.58                            | 14.50                               | 14.56                             |                        |             |  |  |  |
| 40              | PQ2 BPSK   | 1       | 214       | 14.49                            | 14.61                               | 14.65                             |                        |             |  |  |  |
| 40              | PQ2 BPSK   | 108     | 0         | 14.36                            | 14.49                               | 14.35                             | 15.5                   | 0.0         |  |  |  |
| 40              | PQ2 BPSK   | 108     | 54        | 14.34                            | 14.58                               | 14.38                             | 15.5                   | 0.0         |  |  |  |
| 40              | PQ2 BPSK   | 108     | 108       | 14.50                            | 14.59                               | 14.49                             | 15.5                   | 0.0         |  |  |  |
| 40              | PQ2 BPSK   | 216     | 0         | 14.52                            | 14.57                               | 14.63                             |                        |             |  |  |  |
| 40              | QPSK       | 1       | 1         | 14.53                            | 14.67                               | 14.65                             |                        |             |  |  |  |
| 40              | QPSK       | 1       | 108       | 14.45                            | 14.55                               | 14.62                             | 15.5                   | 0.0         |  |  |  |
| 40              | QPSK       | 1       | 214       | 14.49                            | 14.65                               | 14.65                             | 15.5                   | 0.0         |  |  |  |
| 40              | QPSK       | 108     | 0         | 14.54                            | 14.58                               | 14.58                             |                        |             |  |  |  |
| 40              | QPSK       | 108     | 54        | 14.55                            | 14.65                               | 14.60                             |                        |             |  |  |  |
| 40              | QPSK       | 108     | 108       | 14.48                            | 14.54                               | 14.58                             | 15.5                   | 0.0         |  |  |  |
| 40              | QPSK       | 216     | 0         | 14.60                            | 14.62                               | 14.60                             |                        |             |  |  |  |
| 40              | 16QAM      | 1       | 1         | 14.56                            | 14.63                               | 14.65                             |                        |             |  |  |  |
| 40              | 64QAM      | 1       | 1         | 14.41                            | 14.60                               | 14.54                             | 15.5                   | 0.0         |  |  |  |
| 40              | 256QAM     | 1       | 1         | 14.52                            | 14.57                               | 14.63                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 30              | QPSK       | 1       | 1         | 14.42                            | 14.58                               | 14.58                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 25              | QPSK       | 1       | 1         | 14.42                            | 14.61                               | 14.54                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 20              | QPSK       | 1       | 1         | 14.50                            | 14.60                               | 14.60                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 15              | QPSK       | 1       | 1         | 14.43                            | 14.58                               | 14.62                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 10              | QPSK       | 1       | 1         | 14.49                            | 14.60                               | 14.61                             | 15.5                   | 0.0         |  |  |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                        |             |  |  |  |
| 5               | QPSK       | 1       | 1         | 14.45                            | 14.57                               | 14.56                             | 15.5                   | 0.0         |  |  |  |



| n12_Ant 0       |            |         |           |                                      |                                         |                                       |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------------------|-----------------------------------------|---------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 / Freq.<br>141300 | Power Middle<br>Ch. 1 / Freq.<br>141500 | Power High<br>Ch. 1 / Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 706.5                                | 707.5                                   | 708.5                                 | 24.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                      |                                         |                                       |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                                | 22.90                                   | 22.84                                 |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                                | 22.96                                   | 22.91                                 |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                                | 22.93                                   | 22.83                                 | 24.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                                | 22.88                                   | 22.86                                 | 24.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                                | 22.79                                   | 22.77                                 | 24.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                                | 22.75                                   | 22.70                                 | 24.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                                | 22.88                                   | 22.80                                 | 24.0                   | 0.0         |  |
| 15              | QPSK       | 1       | 1         | 22.96                                | 23.01                                   | 22.92                                 | 24.0                   | 0.0         |  |
| 15              | QPSK       | 1       | 40        | 22.85                                | 22.92                                   | 22.83                                 |                        |             |  |
| 15              | QPSK       | 1       | 77        | 22.83                                | 22.93                                   | 22.81                                 |                        |             |  |
| 15              | QPSK       | 36      | 0         | 22.79                                | 22.86                                   | 22.79                                 |                        |             |  |
| 15              | QPSK       | 36      | 22        | 22.91                                | 22.96                                   | 22.92                                 | 24.0                   | 0.0         |  |
| 15              | QPSK       | 36      | 43        | 22.70                                | 22.78                                   | 22.70                                 | 24.0                   | 0.0         |  |
| 15              | QPSK       | 75      | 0         | 22.84                                | 22.90                                   | 22.87                                 | 24.0                   | 0.0         |  |
| 15              | 16QAM      | 1       | 1         | 22.85                                | 22.91                                   | 22.86                                 | 24.0                   | 0.0         |  |
| 15              | 64QAM      | 1       | 1         | 21.43                                | 21.51                                   | 21.49                                 | 22.5                   | 1.5         |  |
| 15              | 256QAM     | 1       | 1         | 19.51                                | 19.55                                   | 19.49                                 | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 140300                               | 141500                                  | 142700                                | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 704                                  | 707.5                                   | 711                                   | 24.0                   | 0.0         |  |
| 10              | QPSK       | 1       | 1         | 22.88                                | 22.99                                   | 22.86                                 | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 140300                               | 141500                                  | 142700                                | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 701.5                                | 707.5                                   | 713.5                                 | 24.0                   | 0.0         |  |
| 5               | QPSK       | 1       | 1         | 22.89                                | 22.94                                   | 22.87                                 | 24.0                   | 0.0         |  |

| n12_Ant 1       |            |         |           |                                      |                                         |                                       |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------------------|-----------------------------------------|---------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 / Freq.<br>141300 | Power Middle<br>Ch. 1 / Freq.<br>141500 | Power High<br>Ch. 1 / Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 706.5                                | 707.5                                   | 708.5                                 | 21.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                      |                                         |                                       |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 1         | 20.19                                | 20.27                                   | 20.26                                 |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 40        | 20.16                                | 20.26                                   | 20.35                                 |                        |             |  |
| 15              | Pl2 BPSK   | 1       | 77        | 20.19                                | 20.28                                   | 20.36                                 | 21.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 0         | 20.21                                | 20.32                                   | 20.31                                 | 21.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 22        | 20.22                                | 20.28                                   | 20.33                                 | 21.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 36      | 43        | 20.14                                | 20.30                                   | 20.35                                 | 21.0                   | 0.0         |  |
| 15              | Pl2 BPSK   | 75      | 0         | 20.20                                | 20.33                                   | 20.36                                 | 21.0                   | 0.0         |  |
| 15              | QPSK       | 1       | 1         | 20.26                                | 20.41                                   | 20.40                                 | 21.0                   | 0.0         |  |
| 15              | QPSK       | 1       | 40        | 20.23                                | 20.37                                   | 20.32                                 |                        |             |  |
| 15              | QPSK       | 1       | 77        | 20.16                                | 20.30                                   | 20.33                                 |                        |             |  |
| 15              | QPSK       | 36      | 0         | 20.16                                | 20.32                                   | 20.30                                 |                        |             |  |
| 15              | QPSK       | 36      | 22        | 20.15                                | 20.38                                   | 20.33                                 | 21.0                   | 0.0         |  |
| 15              | QPSK       | 36      | 43        | 20.14                                | 20.31                                   | 20.28                                 | 21.0                   | 0.0         |  |
| 15              | QPSK       | 75      | 0         | 20.25                                | 20.36                                   | 20.28                                 | 21.0                   | 0.0         |  |
| 15              | 16QAM      | 1       | 1         | 20.19                                | 20.26                                   | 20.26                                 | 21.0                   | 0.0         |  |
| 15              | 64QAM      | 1       | 1         | 20.22                                | 20.29                                   | 20.31                                 | 21.0                   | 0.0         |  |
| 15              | 256QAM     | 1       | 1         | 19.08                                | 19.18                                   | 19.17                                 | 19.5                   | 1.5         |  |
| Channel         |            |         |           | 140300                               | 141500                                  | 142700                                | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 704                                  | 707.5                                   | 711                                   | 24.0                   | 0.0         |  |
| 10              | QPSK       | 1       | 1         | 20.11                                | 20.27                                   | 20.35                                 | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 140300                               | 141500                                  | 142700                                | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 701.5                                | 707.5                                   | 713.5                                 | 21.0                   | 0.0         |  |
| 5               | QPSK       | 1       | 1         | 20.24                                | 20.30                                   | 20.25                                 | 21.0                   | 0.0         |  |

| n14_Ant 0       |            |         |           |                            |                               |                             |                               |             |  |
|-----------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|-------------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 / Freq. | Power Middle<br>Ch. 1 / Freq. | Power High<br>Ch. 1 / Freq. | Tune-up limit<br>(dBm)        | MPR<br>(dB) |  |
| Channel         |            |         |           | 159100                     |                               |                             | 24.0                          | 0.0         |  |
| Frequency (MHz) |            |         |           | 710                        |                               |                             |                               |             |  |
| 10              | Pl2 BPSK   | 1       | 1         |                            | 22.78                         |                             |                               |             |  |
| 10              | Pl2 BPSK   | 1       | 26        |                            | 22.80                         |                             |                               |             |  |
| 10              | Pl2 BPSK   | 1       | 50        |                            | 22.76                         |                             | 24.0                          | 0.0         |  |
| 10              | Pl2 BPSK   | 25      | 0         |                            | 22.84                         |                             | 24.0                          | 0.0         |  |
| 10              | Pl2 BPSK   | 25      | 14        |                            | 22.89                         |                             | 24.0                          | 0.0         |  |
| 10              | Pl2 BPSK   | 25      | 27        |                            | 22.83                         |                             | 24.0                          | 0.0         |  |
| 10              | Pl2 BPSK   | 50      | 0         |                            | 22.84                         |                             | 24.0                          | 0.0         |  |
| 10              | QPSK       | 1       | 1         |                            | 22.82                         |                             | 24.0                          | 0.0         |  |
| 10              | QPSK       | 1       | 26        |                            | 22.80                         |                             |                               |             |  |
| 10              | QPSK       | 1       | 50        |                            | 22.72                         |                             |                               |             |  |
| 10              | QPSK       | 25      | 0         |                            | 22.85                         |                             |                               |             |  |
| 10              | QPSK       | 25      | 14        |                            | 22.71                         |                             | 24.0                          | 0.0         |  |
| 10              | QPSK       | 25      | 27        |                            | 22.88                         |                             | 24.0                          | 0.0         |  |
| 10              | QPSK       | 50      | 0         |                            | 22.86                         |                             | 24.0                          | 0.0         |  |
| 10              | 16QAM      | 1       | 1         |                            | 22.80                         |                             | 24.0                          | 0.0         |  |
| 10              | 64QAM      | 1       | 1         |                            | 21.57                         |                             | 22.5                          | 1.5         |  |
| 10              | 256QAM     | 1       | 1         |                            | 19.45                         |                             | 20.5                          | 3.5         |  |
| Channel         |            |         |           | 159100                     | 159300                        | 159500                      | Tune-up limit<br>(dBm)        | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 700.5                      | 710                           | 715.5                       | 24.0 <td colspan="2">0.0</td> | 0.0         |  |
| 5               | QPSK       | 1       | 1         | 22.74                      | 22.75                         | 22.75                       | 24.0                          | 0.0         |  |

| n14_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 793                   |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 21.07                 |                          |                        |                     |          |  |
| 10              | Pl2 BPSK   | 1       | 1         |                       | 21.13                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 1       | 26        |                       | 21.11                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 1       | 50        |                       | 21.12                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 25      | 0         |                       | 21.16                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 25      | 14        |                       | 21.10                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 25      | 27        |                       | 21.15                    |                        | 22.0                | 0.0      |  |
| 10              | Pl2 BPSK   | 50      | 0         |                       | 21.21                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         |                       | 21.10                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 1       | 26        |                       | 21.12                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 1       | 50        |                       | 21.11                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 25      | 0         |                       | 21.17                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 25      | 14        |                       | 21.05                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 25      | 27        |                       | 21.15                    |                        | 22.0                | 0.0      |  |
| 10              | QPSK       | 50      | 0         |                       | 21.05                    |                        | 22.0                | 0.0      |  |
| 10              | 16QAM      | 1       | 1         |                       | 21.16                    |                        | 22.0                | 0.0      |  |
| 10              | 64QAM      | 1       | 1         |                       | 19.15                    |                        | 20.0                | 2.0      |  |
| Channel         |            |         |           | 150.00                | 150.00                   | 150.00                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 796.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 21.17                 | 21.16                    | 21.16                  | 22.0                | 0.0      |  |

| n25_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1670                  |                          | 1682.5                 |                     |          |  |
| Frequency (MHz) |            |         |           | 23.16                 |                          | 23.23                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         |                       | 23.25                    | 23.33                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 108       |                       | 23.22                    | 23.28                  | 23.5                | 0.5      |  |
| 40              | Pl2 BPSK   | 1       | 214       |                       | 22.81                    | 22.89                  | 22.85               | 0.5      |  |
| 40              | Pl2 BPSK   | 108     | 0         |                       | 23.11                    | 23.18                  | 23.08               | 24.0     |  |
| 40              | Pl2 BPSK   | 108     | 54        |                       | 22.90                    | 22.99                  | 22.94               | 23.5     |  |
| 40              | Pl2 BPSK   | 216     | 0         |                       | 22.99                    | 23.01                  | 22.93               |          |  |
| 40              | QPSK       | 1       | 1         |                       | 23.26                    | 23.36                  | 23.34               |          |  |
| 40              | QPSK       | 1       | 108       |                       | 23.18                    | 23.25                  | 23.18               | 24.0     |  |
| 40              | QPSK       | 1       | 214       |                       | 23.26                    | 23.32                  | 23.22               |          |  |
| 40              | QPSK       | 108     | 5         |                       | 22.29                    | 22.38                  | 22.32               | 23.0     |  |
| 40              | QPSK       | 108     | 54        |                       | 23.15                    | 23.25                  | 23.16               | 24.0     |  |
| 40              | QPSK       | 108     | 108       |                       | 22.39                    | 22.43                  | 22.38               | 23.0     |  |
| 40              | QPSK       | 216     | 0         |                       | 22.41                    | 22.43                  | 22.38               |          |  |
| 40              | 16QAM      | 1       | 1         |                       | 22.38                    | 22.45                  | 22.35               | 23.0     |  |
| 40              | 64QAM      | 1       | 1         |                       | 20.89                    | 20.96                  | 20.90               | 21.5     |  |
| 40              | 256QAM     | 1       | 1         |                       | 19.11                    | 19.14                  | 19.09               | 19.5     |  |
| Channel         |            |         |           | 373500                | 376500                   | 379500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1667.5                | 1682.5                   | 1697.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 23.24                 | 23.34                    | 23.28                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1665                  | 1682.5                   | 1690                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.22                 | 23.33                    | 23.28                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1662.5                | 1682.5                   | 1692.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 23.26                 | 23.32                    | 23.30                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1660                  | 1682.5                   | 1695                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.26                 | 23.29                    | 23.30                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1657.5                | 1682.5                   | 1697.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.26                 | 23.34                    | 23.28                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1655                  | 1682.5                   | 1710                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.23                 | 23.28                    | 23.25                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1652.5                | 1682.5                   | 1692.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.23                 | 23.34                    | 23.28                  | 24.0                | 0.0      |  |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1670                  |                          | 1682.5                 |                     |          |  |
| Frequency (MHz) |            |         |           | 15.75                 |                          | 15.91                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         |                       | 15.75                    | 15.77                  | 15.82               | 17.0     |  |
| 40              | Pl2 BPSK   | 1       | 108       |                       | 15.66                    | 15.83                  | 15.75               | 17.0     |  |
| 40              | Pl2 BPSK   | 108     | 0         |                       | 15.72                    | 15.78                  | 15.81               | 17.0     |  |
| 40              | Pl2 BPSK   | 108     | 54        |                       | 15.67                    | 15.89                  | 15.82               | 17.0     |  |
| 40              | Pl2 BPSK   | 108     | 108       |                       | 15.72                    | 15.89                  | 15.77               | 17.0     |  |
| 40              | Pl2 BPSK   | 216     | 0         |                       | 15.63                    | 15.88                  | 15.83               |          |  |
| 40              | QPSK       | 1       | 1         |                       | 15.76                    | 15.92                  | 15.85               |          |  |
| 40              | QPSK       | 1       | 108       |                       | 15.66                    | 15.90                  | 15.84               | 17.0     |  |
| 40              | QPSK       | 1       | 214       |                       | 15.73                    | 15.90                  | 15.84               |          |  |
| 40              | QPSK       | 108     | 5         |                       | 15.63                    | 15.80                  | 15.76               | 17.0     |  |
| 40              | QPSK       | 108     | 54        |                       | 15.69                    | 15.88                  | 15.83               | 17.0     |  |
| 40              | QPSK       | 108     | 108       |                       | 15.63                    | 15.82                  | 15.78               | 17.0     |  |
| 40              | QPSK       | 216     | 0         |                       | 15.71                    | 15.84                  | 15.71               |          |  |
| 40              | 16QAM      | 1       | 1         |                       | 15.68                    | 15.81                  | 15.84               | 17.0     |  |
| 40              | 64QAM      | 1       | 1         |                       | 15.67                    | 15.81                  | 15.79               | 17.0     |  |
| 40              | 256QAM     | 1       | 1         |                       | 15.71                    | 15.80                  | 15.78               | 17.0     |  |
| Channel         |            |         |           | 373500                | 376500                   | 379500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1667.5                | 1682.5                   | 1697.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 15.60                 | 15.75                    | 15.76                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1665                  | 1682.5                   | 1690                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 15.60                 | 15.78                    | 15.62                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1662.5                | 1682.5                   | 1692.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 15.58                 | 15.82                    | 15.62                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1660                  | 1682.5                   | 1695                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.59                 | 15.82                    | 15.65                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1657.5                | 1682.5                   | 1697.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.67                 | 15.78                    | 15.75                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1655                  | 1682.5                   | 1710                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.68                 | 15.76                    | 15.71                  | 17.0                | 0.0      |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1652.5                | 1682.5                   | 1692.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 15.60                 | 15.77                    | 15.71                  | 17.0                | 0.0      |  |

| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.96                        | 23.02                           | 22.97                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.92                        | 23.00                           | 22.98                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         | 23.5                | 0.5      |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.91                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.82                           | 22.58                         | 23.5                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 18.13                        | 18.17                           | 18.14                         | 20.0                | 4.0      |
| Channel         |            |         |           | 163300                       | 163300                          | 163300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 166300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |

| n26(FCC)_Ant 1  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 20.5                | 0.0      |
| Frequency (MHz) |            |         |           | 19.63                        | 19.77                           | 19.75                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 19.63                        | 19.82                           | 19.73                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 19.63                        | 19.82                           | 19.68                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 19.63                        | 19.68                           | 19.68                         | 20.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 19.64                        | 19.82                           | 19.72                         | 20.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 19.70                        | 19.71                           | 19.71                         | 20.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 19.67                        | 19.79                           | 19.76                         | 20.5                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 19.72                        | 19.68                           | 19.65                         | 20.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 19.76                        | 19.83                           | 19.77                         | 20.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 19.65                        | 19.82                           | 19.72                         |                     |          |
| 20              | QPSK       | 1       | 104       | 19.70                        | 19.82                           | 19.62                         |                     |          |
| 20              | QPSK       | 50      | 0         | 19.65                        | 19.73                           | 19.70                         | 20.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 19.67                        | 19.79                           | 19.73                         | 20.5                | 0.0      |
| 20              | QPSK       | 50      | 56        | 19.64                        | 19.72                           | 19.63                         | 20.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 19.64                        | 19.76                           | 19.66                         | 20.5                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 19.72                        | 19.74                           | 19.65                         | 20.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 19.71                        | 19.78                           | 19.65                         | 20.5                | 0.0      |
| 20              | 256QAM     | 1       | 1         | 18.78                        | 18.88                           | 18.86                         | 19.0                | 1.5      |
| Channel         |            |         |           | 163300                       | 163300                          | 163300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 20.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 19.74                        | 19.82                           | 19.69                         | 20.5                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 20.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 19.70                        | 19.72                           | 19.71                         | 20.5                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 166300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 20.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 19.63                        | 19.82                           | 19.73                         | 20.5                | 0.0      |

| n30_Ant 9       |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 460000 | Power Middle Ch. / Freq. 462500 | Power High Ch. / Freq. 465000 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2310                         |                                 |                               | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 22.78                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 0         | 22.86                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 14        | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 27        | 22.67                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 50      | 0         | 22.72                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.90                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 22.88                        |                                 |                               |                     |          |
| 10              | QPSK       | 1       | 50        | 22.86                        |                                 |                               |                     |          |
| 10              | QPSK       | 25      | 0         | 22.81                        |                                 |                               |                     |          |
| 10              | QPSK       | 25      | 14        | 22.75                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        | 22.71                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 22.78                        |                                 |                               | 24.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 22.05                        |                                 |                               | 22.5                | 1.5      |
| 10              | 256QAM     | 1       | 1         | 19.86                        |                                 |                               | 20.5                | 3.5      |
| Channel         |            |         |           | 461500                       | 462000                          | 462500                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                       | 2310                            | 2312.5                        | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.77                        | 22.80                           | 22.78                         | 24.0                | 0.0      |



| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 15.18                           |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 15.22                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 15.11                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 15.13                           |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 15.23                           |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 15.13                           |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 15.11                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 15.30                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 15.14                           |                        | 17.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 15.17                           |                        | 17.0                | 0.0      |
| 10              | QPSK       | 25      | 0         |                       | 15.16                           |                        |                     |          |
| 10              | QPSK       | 25      | 14        |                       | 15.23                           |                        |                     |          |
| 10              | QPSK       | 25      | 27        |                       | 15.15                           |                        | 17.0                | 0.0      |
| 10              | QPSK       | 50      | 0         |                       | 15.20                           |                        |                     |          |
| 10              | 16QAM      | 1       | 1         |                       | 15.17                           |                        | 17.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         |                       | 15.15                           |                        | 17.0                | 0.0      |
| 10              | 256QAM     | 1       | 1         |                       | 15.12                           |                        | 17.0                | 0.0      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 15.21                 | 15.17                           | 15.25                  | 17.0                | 0.0      |

| n66_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1730                  | 1745                     | 1760                   | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 23.10                 | 23.15                    | 23.08                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 23.20                 | 23.26                    | 23.20                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 23.24                 | 23.26                    | 23.16                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 0         | 23.15                 | 23.21                    | 23.17                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 54        | 23.21                 | 23.25                    | 23.17                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 108       | 23.18                 | 23.23                    | 23.21                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 216     | 0         | 23.11                 | 23.20                    | 23.18                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 23.25                 | 23.31                    | 23.30                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 23.14                 | 23.18                    | 23.12                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 23.21                 | 23.26                    | 23.24                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 22.75                 | 22.85                    | 22.83                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 23.21                 | 23.26                    | 23.25                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 22.95                 | 22.97                    | 22.87                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 23.05                 | 23.11                    | 23.06                  | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 23.03                 | 23.05                    | 23.03                  | 24.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 21.48                 | 21.51                    | 21.48                  | 22.5                | 1.5      |  |
| 40              | 256QAM     | 1       | 1         | 19.39                 | 19.46                    | 19.41                  | 20.5                | 3.5      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 | (dBm)               |          |  |
| 35              | QPSK       | 1       | 1         | 23.21                 | 23.26                    | 23.27                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   | (dBm)               |          |  |
| 30              | QPSK       | 1       | 1         | 23.23                 | 23.27                    | 23.21                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 | (dBm)               |          |  |
| 25              | QPSK       | 1       | 1         | 23.22                 | 23.25                    | 23.24                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   | (dBm)               |          |  |
| 20              | QPSK       | 1       | 1         | 23.16                 | 23.23                    | 23.22                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 | (dBm)               |          |  |
| 15              | QPSK       | 1       | 1         | 23.18                 | 23.22                    | 23.26                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   | (dBm)               |          |  |
| 10              | QPSK       | 1       | 1         | 23.18                 | 23.28                    | 23.27                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 | (dBm)               |          |  |
| 5               | QPSK       | 1       | 1         | 23.22                 | 23.23                    | 23.22                  | 24.0                | 0.0      |  |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1730                  | 1745                     | 1760                   | 18.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.37                 | 17.47                    | 17.47                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 17.46                 | 17.57                    | 17.54                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 17.43                 | 17.49                    | 17.46                  | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 0         | 17.39                 | 17.47                    | 17.49                  | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 54        | 17.51                 | 17.48                    | 17.55                  | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 108       | 17.46                 | 17.61                    | 17.55                  | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 216     | 0         | 17.46                 | 17.61                    | 17.54                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.52                 | 17.62                    | 17.58                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.38                 | 17.51                    | 17.54                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 17.49                 | 17.51                    | 17.44                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.38                 | 17.52                    | 17.50                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 17.47                 | 17.61                    | 17.56                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.40                 | 17.55                    | 17.46                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.44                 | 17.56                    | 17.44                  | 18.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.46                 | 17.55                    | 17.56                  | 18.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.39                 | 17.58                    | 17.47                  | 18.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.48                 | 17.56                    | 17.55                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 345500                | 349000                   | 352500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 | (dBm)               |          |  |
| 35              | QPSK       | 1       | 1         | 17.43                 | 17.61                    | 17.53                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   | (dBm)               |          |  |
| 30              | QPSK       | 1       | 1         | 17.46                 | 17.56                    | 17.54                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 | (dBm)               |          |  |
| 25              | QPSK       | 1       | 1         | 17.50                 | 17.58                    | 17.54                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   | (dBm)               |          |  |
| 20              | QPSK       | 1       | 1         | 17.38                 | 17.60                    | 17.54                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 | (dBm)               |          |  |
| 15              | QPSK       | 1       | 1         | 17.51                 | 17.52                    | 17.56                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   | (dBm)               |          |  |
| 10              | QPSK       | 1       | 1         | 17.51                 | 17.60                    | 17.43                  | 18.5                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 | (dBm)               |          |  |
| 5               | QPSK       | 1       | 1         | 17.42                 | 17.58                    | 17.55                  | 18.5                | 0.0      |  |

| n70_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1700                  | 1705                     | 1710                   | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1700                  | 1705                     | 1710                   |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 1         | 22.88                 | 22.88                    | 22.88                  |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 40        | 22.95                 | 22.95                    | 22.95                  |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 77        | 22.80                 | 22.80                    | 22.80                  | 24.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 0         | 22.75                 | 22.75                    | 22.75                  | 24.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 22        | 22.76                 | 22.76                    | 22.76                  | 24.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 43        | 22.73                 | 22.73                    | 22.73                  | 24.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 75      | 0         | 22.80                 | 22.80                    | 22.80                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.97                 | 22.97                    | 22.97                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 40        | 22.92                 | 22.92                    | 22.92                  |                     |          |  |
| 15              | QPSK       | 1       | 77        | 22.81                 | 22.81                    | 22.81                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 22.78                 | 22.78                    | 22.78                  |                     |          |  |
| 15              | QPSK       | 36      | 22        | 22.82                 | 22.82                    | 22.82                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 36      | 43        | 22.73                 | 22.73                    | 22.73                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 75      | 0         | 22.80                 | 22.80                    | 22.80                  | 24.0                | 0.0      |  |
| 15              | 16QAM      | 1       | 1         | 22.85                 | 22.85                    | 22.85                  | 24.0                | 0.0      |  |
| 15              | 64QAM      | 1       | 1         | 21.75                 | 21.75                    | 21.75                  | 22.5                | 1.5      |  |
| 15              | 256QAM     | 1       | 1         | 19.65                 | 19.65                    | 19.65                  | 20.5                | 3.5      |  |
| Channel         |            |         |           | 346000                | 349000                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   | (dBm)               |          |  |
| 10              | QPSK       | 1       | 1         | 22.84                 | 22.86                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 | (dBm)               |          |  |
| 5               | QPSK       | 1       | 1         | 22.88                 | 22.89                    | 22.89                  | 24.0                | 0.0      |  |

| n70_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel         |            |         |           | 1702.5                |                          |                        | 18.5                | 0.0      |  |  |  |  |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |  |  |  |  |
| 15              | Pl2 BPSK   | 1       | 1         | 17.85                 |                          |                        |                     |          |  |  |  |  |
| 15              | Pl2 BPSK   | 1       | 40        | 17.87                 |                          |                        |                     |          |  |  |  |  |
| 15              | Pl2 BPSK   | 1       | 77        | 17.74                 |                          |                        |                     |          |  |  |  |  |
| 15              | Pl2 BPSK   | 36      | 0         | 17.81                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | Pl2 BPSK   | 36      | 22        | 17.75                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | Pl2 BPSK   | 36      | 43        | 17.85                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | Pl2 BPSK   | 75      | 0         | 17.82                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | QPSK       | 1       | 1         | 17.88                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | QPSK       | 1       | 40        | 17.80                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 1       | 77        | 17.84                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 17.77                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 36      | 22        | 17.85                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | QPSK       | 36      | 43        | 17.80                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 17.75                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | 16QAM      | 1       | 1         | 17.80                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | 64QAM      | 1       | 1         | 17.83                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 15              | 256QAM     | 1       | 1         | 17.85                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| Channel         |            |         |           | 340000                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |  |  |  |  |
| 10              | QPSK       | 1       | 1         | 17.74                 | 17.82                    | 17.79                  | 18.5                | 0.0      |  |  |  |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |  |  |  |  |
| 5               | QPSK       | 1       | 1         | 17.80                 | 17.80                    | 17.86                  | 15.5                | 0.0      |  |  |  |  |

| n71_Ant 0       |            |         |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | Channel | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |         |           | 156500                | 158500                   | 160500                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |         |           | 676                   | 680.5                    | 683                    |                     |          |
| 30              | Pl2 BPSK   | 1       | 1       | 23.05     | 23.07                 | 22.98                    |                        |                     |          |
| 30              | Pl2 BPSK   | 1       | 80      | 22.59     | 22.60                 | 22.59                    |                        |                     |          |
| 30              | Pl2 BPSK   | 1       | 158     | 22.63     | 22.68                 | 22.65                    |                        |                     |          |
| 30              | Pl2 BPSK   | 80      | 0       | 22.65     | 22.72                 | 22.69                    | 24.0                   |                     |          |
| 30              | Pl2 BPSK   | 80      | 40      | 22.65     | 22.74                 | 22.66                    | 24.0                   |                     |          |
| 30              | Pl2 BPSK   | 80      | 80      | 22.46     | 22.51                 | 22.49                    | 24.0                   | 0.0                 |          |
| 30              | Pl2 BPSK   | 160     | 0       | 22.66     | 22.68                 | 22.62                    |                        |                     |          |
| 30              | QPSK       | 1       | 1       | 23.08     | 23.12                 | 23.05                    |                        |                     |          |
| 30              | QPSK       | 1       | 80      | 22.64     | 22.65                 | 22.64                    | 24.0                   | 0.0                 |          |
| 30              | QPSK       | 1       | 158     | 22.68     | 22.72                 | 22.67                    |                        |                     |          |
| 30              | QPSK       | 80      | 0       | 22.66     | 22.73                 | 22.71                    | 24.0                   | 0.0                 |          |
| 30              | QPSK       | 80      | 40      | 22.88     | 22.75                 | 22.72                    | 24.0                   | 0.0                 |          |
| 30              | QPSK       | 80      | 80      | 22.38     | 22.48                 | 22.39                    | 24.0                   | 0.0                 |          |
| 30              | QPSK       | 160     | 0       | 22.68     | 22.71                 | 22.67                    |                        |                     |          |
| 30              | 16QAM      | 1       | 1       | 22.99     | 23.02                 | 22.95                    | 24.0                   |                     |          |
| 30              | 64QAM      | 1       | 1       | 22.01     | 22.07                 | 22.04                    | 22.5                   | 1.5                 |          |
| 30              | 256QAM     | 1       | 1       | 20.07     | 20.14                 | 20.09                    | 20.5                   | 3.5                 |          |
| Channel         |            |         |         |           | 135100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |         |           | 675.5                 | 680.5                    | 685.5                  |                     |          |
| 25              | QPSK       | 1       | 1       | 23.06     | 23.02                 | 22.98                    | 24.0                   | 0.0                 |          |
| Channel         |            |         |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20              | QPSK       | 1       | 1       | 23.02     | 23.04                 | 23.02                    | 24.0                   | 0.0                 |          |
| Channel         |            |         |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15              | QPSK       | 1       | 1       | 22.98     | 23.05                 | 22.95                    | 24.0                   | 0.0                 |          |
| Channel         |            |         |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |         |           | 668                   | 680.5                    | 693                    |                     |          |
| 10              | QPSK       | 1       | 1       | 23.02     | 23.02                 | 23.00                    | 24.0                   | 0.0                 |          |
| Channel         |            |         |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |         |           | 665.5                 | 680.5                    | 695.5                  |                     |          |
| 5               | QPSK       | 1       | 1       | 22.98     | 23.08                 | 22.95                    | 24.0                   | 0.0                 |          |

| n71_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 135100 136100 137600  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 678 680.5 685         |                          |                        |                     |          |  |
| 30              | Pl2 BPSK   | 1       | 1         | 20.12                 | 20.11                    | 19.96                  | 21.0                | 0.0      |  |
| 30              | Pl2 BPSK   | 1       | 80        | 20.18                 | 20.18                    | 20.06                  |                     |          |  |
| 30              | Pl2 BPSK   | 1       | 158       | 20.12                 | 20.18                    | 19.96                  |                     |          |  |
| 30              | Pl2 BPSK   | 80      | 0         | 20.23                 | 20.24                    | 20.02                  |                     |          |  |
| 30              | Pl2 BPSK   | 80      | 40        | 20.18                 | 20.14                    | 19.97                  | 21.0                | 0.0      |  |
| 30              | Pl2 BPSK   | 80      | 80        | 20.14                 | 20.10                    | 20.00                  | 21.0                | 0.0      |  |
| 30              | Pl2 BPSK   | 160     | 0         | 20.22                 | 20.20                    | 20.07                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 20.24                 | 20.25                    | 20.08                  |                     |          |  |
| 30              | QPSK       | 1       | 80        | 20.16                 | 20.11                    | 20.05                  | 21.0                | 0.0      |  |
| 30              | QPSK       | 1       | 158       | 20.16                 | 20.16                    | 20.03                  |                     |          |  |
| 30              | QPSK       | 80      | 0         | 20.10                 | 20.15                    | 20.04                  |                     |          |  |
| 30              | QPSK       | 80      | 40        | 20.20                 | 20.22                    | 20.06                  |                     |          |  |
| 30              | QPSK       | 80      | 80        | 20.18                 | 20.17                    | 20.01                  | 21.0                | 0.0      |  |
| 30              | QPSK       | 160     | 0         | 20.12                 | 20.20                    | 20.07                  | 21.0                | 0.0      |  |
| 30              | 16QAM      | 1       | 1         | 20.09                 | 20.18                    | 20.05                  |                     |          |  |
| 30              | 64QAM      | 1       | 1         | 20.09                 | 20.22                    | 20.04                  |                     |          |  |
| 30              | 256QAM     | 1       | 1         | 19.39                 | 19.42                    | 19.30                  | 20.5                | 0.5      |  |
| Channel         |            |         |           | 135100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 675.5                 | 680.5                    | 685.5                  |                     |          |  |
| 25              | QPSK       | 1       | 1         | 20.23                 | 20.10                    | 20.07                  | 21.0                | 0.0      |  |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.16                 | 20.19                    | 20.06                  | 21.0                | 0.0      |  |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.10                 | 20.24                    | 20.03                  | 21.0                | 0.0      |  |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.15                 | 20.17                    | 19.93                  | 21.0                | 0.0      |  |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 695.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 20.21                 | 20.12                    | 20.06                  | 21.0                | 0.0      |  |



| n38_Ant 9       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 22.83                 | 22.92                    | 22.88                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 22.81                 | 22.93                    | 22.86                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 22.78                 | 22.68                    | 22.58                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 22.78                 | 22.73                    | 22.63                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 22.77                 | 22.79                    | 22.77                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 22.84                 | 22.65                    | 22.63                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 22.74                 | 22.75                    | 22.68                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.90                 | 22.95                    | 22.91                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 22.88                 | 22.93                    | 22.90                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 22.80                 | 22.73                    | 22.69                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 22.74                 | 22.75                    | 22.71                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 22.76                 | 22.80                    | 22.76                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 22.88                 | 22.70                    | 22.63                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 22.74                 | 22.75                    | 22.70                  | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.81                 | 22.85                    | 22.82                  | 24.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 22.67                 | 22.77                    | 22.75                  | 24.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 20.58                 | 20.64                    | 20.58                  | 22.0                | 2.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2560.01               | 2565                     | 2564.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.81                 | 22.85                    | 22.89                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2560                  | 2565                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.83                 | 22.87                    | 22.82                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2585                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.84                 | 22.85                    | 22.87                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2585                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.85                 | 22.90                    | 22.84                  | 24.0                | 0.0      |  |

| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 14.79                 | 14.88                    | 14.79                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 14.94                 | 14.92                    | 14.90                  | 16.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 14.83                 | 14.91                    | 14.86                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 14.74                 | 14.78                    | 14.69                  | 16.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 14.70                 | 14.80                    | 14.64                  | 16.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 14.85                 | 14.90                    | 14.84                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 14.78                 | 14.83                    | 14.76                  | 16.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 14.93                 | 14.96                    | 14.95                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 14.82                 | 14.84                    | 14.80                  | 16.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 14.81                 | 14.89                    | 14.84                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 14.80                 | 14.74                    | 14.67                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 14.75                 | 14.85                    | 14.83                  | 16.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 14.76                 | 14.80                    | 14.77                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 14.85                 | 14.86                    | 14.82                  | 16.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 14.81                 | 14.85                    | 14.84                  | 16.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 14.67                 | 14.70                    | 14.72                  | 16.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 14.68                 | 14.85                    | 14.78                  | 16.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2560.01               | 2565                     | 2564.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 14.78                 | 14.81                    | 14.74                  | 16.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2560                  | 2565                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 14.78                 | 14.85                    | 14.81                  | 16.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515002                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2585                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 14.78                 | 14.74                    | 14.76                  | 16.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2585                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 14.71                 | 14.82                    | 14.83                  | 16.0                | 0.0      |  |

| FCC_n41_Ant 9   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 5546.01               | 5562.99                  | 5580.00                |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.71                 | 22.81                    | 22.80                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 22.74                 | 22.85                    | 22.75                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.58                 | 22.73                    | 22.55                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 22.60                 | 22.74                    | 22.71                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 22.67                 | 22.80                    | 22.61                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 22.61                 | 22.66                    | 22.65                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.56                 | 22.68                    | 22.46                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 22.71                 | 22.97                    | 22.83                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.66                 | 22.88                    | 22.85                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 22.64                 | 22.73                    | 22.53                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.57                 | 22.72                    | 22.58                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.66                 | 22.63                    | 22.73                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.54                 | 22.61                    | 22.58                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.53                 | 22.57                    | 22.43                  | 23.5                | 0.5      |  |
| 100             | 16QAM      | 1       | 1         | 22.78                 | 22.86                    | 22.78                  | 24.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 22.69                 | 22.84                    | 22.79                  | 24.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 22.81                 | 22.88                    | 22.80                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506200                | 518098                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2524.1                | 2592.99                  | 2594.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.58                 | 22.89                    | 22.72                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518098                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536.02               | 2592.99                  | 2594.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.70                 | 22.92                    | 22.87                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 508202                | 518098                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2531.01               | 2592.99                  | 2595                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.67                 | 22.92                    | 22.71                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518098                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2524.06               | 2592.99                  | 2595.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.65                 | 22.95                    | 22.82                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518098                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2521.02               | 2592.99                  | 2594.98                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 22.53                 | 22.79                    | 22.61                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503202                | 518098                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.62                 | 22.86                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518098                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.55                 | 22.84                    | 22.70                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518098                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.58                 | 22.85                    | 22.71                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500202                | 518098                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2503.03               | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.55                 | 22.91                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500202                | 518098                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2503.01               | 2592.99                  | 2683                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.67                 | 22.89                    | 22.69                  | 24.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.02                | 27.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2540                   |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 1         | 25.68                 | 25.82                    | 25.72                  | 27.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 1       | 137       | 25.96                 | 25.90                    | 25.80                  |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 271       | 25.93                 | 25.77                    | 25.73                  | 26.5                | 0.5      |  |
| 100                | PQ2 BPSK   | 135     | 0         | 25.71                 | 25.69                    | 25.63                  |                     |          |  |
| 100                | PQ2 BPSK   | 135     | 69        | 25.73                 | 25.76                    | 25.71                  | 27.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 138       | 25.70                 | 25.68                    | 25.60                  | 26.5                | 0.5      |  |
| 100                | PQ2 BPSK   | 270     | 0         | 25.70                 | 25.55                    | 25.52                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 25.70                 | 25.01                    | 25.33                  | 27.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       | 25.75                 | 25.92                    | 25.87                  |                     |          |  |
| 100                | QPSK       | 1       | 271       | 25.96                 | 25.81                    | 25.73                  | 27.0                | 0.0      |  |
| 100                | QPSK       | 135     | 0         | 25.62                 | 25.66                    | 25.60                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 25.75                 | 25.75                    | 25.71                  | 26.5                | 0.5      |  |
| 100                | QPSK       | 135     | 138       | 25.73                 | 25.60                    | 25.55                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 25.66                 | 25.70                    | 25.63                  | 26.5                | 0.5      |  |
| 100                | 16QAM      | 1       | 1         | 25.78                 | 25.86                    | 25.83                  | 27.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 24.85                 | 24.52                    | 24.62                  | 26.0                | 1.0      |  |
| 100                | 256QAM     | 1       | 1         | 22.71                 | 22.84                    | 22.81                  | 24.0                | 3.0      |  |
| Channel            |            |         |           | 506200                | 518998                   | 528996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2544                  | 2592.99                  | 2544.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 25.90                 | 25.89                    | 25.89                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2540.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 25.93                 | 25.93                    | 25.86                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 508202                | 518998                   | 529002                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 25.97                 | 25.92                    | 25.90                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 509200                | 518998                   | 531996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2524                  | 2592.99                  | 2594.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 25.91                 | 25.97                    | 25.85                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518998                   | 532996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2584.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 25.93                 | 25.82                    | 25.84                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2570                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 25.90                 | 25.96                    | 25.87                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 502200                | 518998                   | 535996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2574.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 25.95                 | 25.95                    | 25.83                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518998                   | 535996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2508.02               | 2592.99                  | 2579.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 25.92                 | 25.95                    | 25.85                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2582.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 25.93                 | 25.81                    | 25.84                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 25.97                 | 25.95                    | 25.86                  | 27.0                | 0.0      |  |



| FCC_n41_Ant 1   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5290.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2566.01               | 2592.99                  | 2560                   |                     |          |  |
| 100             | P22 BPSK   | 1       | 1         | 14.37                 | 14.26                    | 14.30                  |                     |          |  |
| 100             | P22 BPSK   | 1       | 137       | 14.26                 | 14.21                    | 14.23                  | 16.0                | 0.0      |  |
| 100             | P22 BPSK   | 1       | 271       | 14.22                 | 14.31                    | 14.26                  |                     |          |  |
| 100             | P22 BPSK   | 135     | 9         | 14.33                 | 14.31                    | 14.19                  | 16.0                | 0.0      |  |
| 100             | P22 BPSK   | 135     | 69        | 14.31                 | 14.28                    | 14.20                  | 16.0                | 0.0      |  |
| 100             | P22 BPSK   | 135     | 138       | 14.26                 | 14.27                    | 14.23                  |                     |          |  |
| 100             | P22 BPSK   | 270     | 0         | 14.14                 | 14.22                    | 14.27                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 14.45                 | 14.47                    | 14.41                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 14.31                 | 14.36                    | 14.30                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 14.23                 | 14.34                    | 14.34                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 14.17                 | 14.17                    | 14.17                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 14.30                 | 14.40                    | 14.31                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 14.12                 | 14.17                    | 14.15                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 14.33                 | 14.37                    | 14.36                  | 16.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 14.34                 | 14.43                    | 14.39                  | 16.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 14.16                 | 14.31                    | 14.19                  | 16.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 14.08                 | 14.18                    | 14.08                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5060.00               | 5189.98                  | 5299.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2561                  | 2592.99                  | 2544.98                | (dB)                | (dB)     |  |
| 90              | QPSK       | 1       | 1         | 14.25                 | 14.29                    | 14.30                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5072.04               | 5189.98                  | 5299.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2549.99                | (dBm)               | (dB)     |  |
| 80              | QPSK       | 1       | 1         | 14.27                 | 14.32                    | 14.22                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5052.02               | 5189.98                  | 5310.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2555                   | (dBm)               | (dB)     |  |
| 70              | QPSK       | 1       | 1         | 14.27                 | 14.32                    | 14.28                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5052.00               | 5189.98                  | 5319.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2531                  | 2592.99                  | 2564.98                | (dB)                | (dB)     |  |
| 60              | QPSK       | 1       | 1         | 14.29                 | 14.35                    | 14.26                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5042.04               | 5189.98                  | 5329.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2564.99                | (dB)                | (dB)     |  |
| 50              | QPSK       | 1       | 1         | 14.31                 | 14.30                    | 14.28                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5032.02               | 5189.98                  | 5340.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2570                   | (dBm)               | (dB)     |  |
| 40              | QPSK       | 1       | 1         | 14.24                 | 14.39                    | 14.23                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5022.00               | 5189.98                  | 5359.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2574.98                | (dBm)               | (dB)     |  |
| 30              | QPSK       | 1       | 1         | 14.24                 | 14.30                    | 14.32                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5012.04               | 5189.98                  | 5359.98                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2579.99                | (dB)                | (dB)     |  |
| 20              | QPSK       | 1       | 1         | 14.30                 | 14.37                    | 14.24                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5007.00               | 5189.98                  | 5369.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2582.48                | (dBm)               | (dB)     |  |
| 15              | QPSK       | 1       | 1         | 14.25                 | 14.25                    | 14.25                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 5002.02               | 5189.98                  | 5370.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 10              | QPSK       | 1       | 1         | 14.27                 | 14.28                    | 14.24                  | 16.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 1 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.00                |                     |          |  |
| Frequency (MHz)    |            |         |           | 2566.01               | 2592.99                  | 2560                   |                     |          |  |
| 100                | P22 BPSK   | 1       | 1         | 14.37                 | 14.26                    | 14.30                  |                     |          |  |
| 100                | P22 BPSK   | 1       | 137       | 14.26                 | 14.21                    | 14.23                  | 16.0                | 0.0      |  |
| 100                | P22 BPSK   | 1       | 271       | 14.22                 | 14.31                    | 14.26                  |                     |          |  |
| 100                | P22 BPSK   | 135     | 9         | 14.33                 | 14.31                    | 14.19                  | 16.0                | 0.0      |  |
| 100                | P22 BPSK   | 135     | 69        | 14.31                 | 14.28                    | 14.20                  | 16.0                | 0.0      |  |
| 100                | P22 BPSK   | 135     | 138       | 14.26                 | 14.27                    | 14.23                  |                     |          |  |
| 100                | P22 BPSK   | 270     | 0         | 14.14                 | 14.22                    | 14.27                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 14.45                 | 14.47                    | 14.41                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 14.31                 | 14.36                    | 14.30                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 14.23                 | 14.34                    | 14.34                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.17                 | 14.17                    | 14.17                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 14.30                 | 14.40                    | 14.31                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 14.12                 | 14.17                    | 14.15                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 14.33                 | 14.37                    | 14.36                  | 16.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 14.34                 | 14.43                    | 14.39                  | 16.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.16                 | 14.31                    | 14.19                  | 16.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 14.08                 | 14.18                    | 14.08                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5060.00               | 5189.98                  | 5299.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2561                  | 2592.99                  | 2544.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 14.25                 | 14.29                    | 14.30                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5072.04               | 5189.98                  | 5299.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2549.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 14.27                 | 14.32                    | 14.22                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5052.02               | 5189.98                  | 5310.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2555                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 14.27                 | 14.32                    | 14.28                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5052.00               | 5189.98                  | 5319.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531                  | 2592.99                  | 2564.98                | (dB)                | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 14.29                 | 14.35                    | 14.26                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5042.04               | 5189.98                  | 5329.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2564.99                | (dB)                | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 14.31                 | 14.30                    | 14.28                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5032.02               | 5189.98                  | 5340.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2570                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 14.24                 | 14.39                    | 14.23                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5022.00               | 5189.98                  | 5359.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2574.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 14.24                 | 14.30                    | 14.32                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5012.04               | 5189.98                  | 5359.98                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2506.02               | 2592.99                  | 2579.99                | (dB)                | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 14.30                 | 14.37                    | 14.24                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5007.00               | 5189.98                  | 5369.96                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2582.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 14.25                 | 14.25                    | 14.25                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 5002.02               | 5189.98                  | 5370.00                | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 14.27                 | 14.28                    | 14.24                  | 16.0                | 0.0      |  |

| FCC_n41_Ant 2   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5290.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2566.01               | 2592.99                  | 2560                   |                     |          |  |
| 100             | P22 BPSK   | 1       | 1         | 22.41                 | 22.60                    | 22.75                  |                     |          |  |
| 100             | P22 BPSK   | 1       | 137       | 22.47                 | 22.57                    | 22.71                  | 24.0                | 0.0      |  |
| 100             | P22 BPSK   | 1       | 271       | 22.43                 | 22.58                    | 22.72                  |                     |          |  |
| 100             | P22 BPSK   | 135     | 9         | 22.43                 | 22.55                    | 22.74                  | 24.0                | 0.0      |  |
| 100             | P22 BPSK   | 135     | 69        | 22.47                 | 22.58                    | 22.71                  | 24.0                | 0.0      |  |
| 100             | P22 BPSK   | 135     | 138       | 22.49                 | 22.58                    | 22.76                  |                     |          |  |
| 100             | P22 BPSK   | 270     | 0         | 22.47                 | 22.58                    | 22.76                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 22.51                 | 22.63                    | 22.79                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.49                 | 22.61                    | 22.71                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 22.42                 | 22.59                    | 22.76                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.48                 | 22.61                    | 22.71                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.50                 | 22.62                    | 22.77                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.42                 | 22.54                    | 22.75                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.48                 | 22.58                    | 22.75                  | 24.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 22.44                 | 22.60                    | 22.70                  | 24.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 22.66                 | 22.71                    | 22.72                  | 23.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.89                 | 20.76                    | 20.84                  | 21.5                | 2.5      |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5309.98                |                     |          |  |
| Frequency (MHz) |            |         |           | 2561                  | 2592.99                  | 2644.98                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 22.42                 | 22.57                    | 22.73                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5072.04               | 5189.98                  | 5299.98                |                     |          |  |
| Frequency (MHz) |            |         |           | 2567.04               | 2592.99                  | 2649.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.45                 | 22.60                    | 22.77                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5310.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2561.01               | 2592.99                  | 2665                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.49                 | 22.60                    | 22.76                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5310.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2566                  | 2592.99                  | 2669.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.44                 | 22.55                    | 22.71                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5042.04               | 5189.98                  | 5330.98                |                     |          |  |
| Frequency (MHz) |            |         |           | 2551.04               | 2592.99                  | 2684.98                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 22.48                 | 22.59                    | 22.77                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5340.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2561.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.41                 | 22.54                    | 22.68                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5340.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2561                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.44                 | 22.57                    | 22.74                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5072.04               | 5189.98                  | 5359.98                |                     |          |  |
| Frequency (MHz) |            |         |           | 2566.02               | 2592.99                  | 2679.98                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.42                 | 22.54                    | 22.74                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5070.00               | 5189.98                  | 5369.98                |                     |          |  |
| Frequency (MHz) |            |         |           | 2563.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.42                 | 22.59                    | 22.77                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 5072.04               | 5189.98                  | 5370.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2561.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.44                 | 22.60                    | 22.76                  | 24.0                | 0.0      |  |



| FCC_n41 HPUE_Ant 2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 24.46                 | 24.54                    | 24.57                  |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 24.47                 | 24.65                    | 24.71                  | 26.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 271       | 24.36                 | 24.56                    | 24.56                  |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 24.32                 | 24.52                    | 24.53                  | 25.5                | 0.5      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 24.45                 | 24.61                    | 24.72                  | 26.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 24.43                 | 24.55                    | 24.58                  | 25.5                | 0.5      |  |
| 100                | Pl2 BPSK   | 270     | 0         | 24.36                 | 24.48                    | 24.62                  | 25.5                | 0.5      |  |
| 100                | QPSK       | 1       | 1         | 23.51                 | 23.68                    | 26.74                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 24.47                 | 24.55                    | 24.60                  | 26.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 24.40                 | 24.58                    | 24.58                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 23.96                 | 23.82                    | 23.79                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 24.41                 | 24.11                    | 24.67                  | 26.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 23.94                 | 24.12                    | 24.15                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 23.85                 | 23.91                    | 23.97                  | 25.0                | 1.0      |  |
| 100                | 16QAM      | 1       | 1         | 22.73                 | 22.83                    | 22.82                  | 25.0                | 1.0      |  |
| 100                | 16QAM      | 1       | 1         | 22.66                 | 22.71                    | 22.72                  | 23.5                | 2.5      |  |
| 100                | 256QAM     | 1       | 1         | 20.69                 | 20.76                    | 20.84                  | 21.5                | 4.5      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 24.39                 | 24.52                    | 24.73                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 24.45                 | 24.52                    | 24.69                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 24.42                 | 24.53                    | 24.59                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 24.37                 | 24.46                    | 24.55                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 24.33                 | 24.49                    | 24.69                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 24.45                 | 24.62                    | 24.60                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 24.33                 | 24.56                    | 24.69                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 24.44                 | 24.49                    | 24.68                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 24.49                 | 24.59                    | 24.59                  | 26.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 24.35                 | 24.62                    | 24.62                  | 26.0                | 0.0      |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 19.21                 | 19.23                    | 19.12                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 19.31                 | 19.35                    | 19.20                  | 20.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 19.25                 | 19.27                    | 19.16                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 19.20                 | 19.27                    | 19.16                  | 20.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 19.22                 | 19.29                    | 19.19                  | 20.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 19.20                 | 19.26                    | 19.20                  |                     |          |  |
| 100             | Pl2 BPSK   | 270     | 0         | 19.19                 | 19.32                    | 19.63                  | 20.5                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 19.33                 | 19.37                    | 19.33                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 19.30                 | 19.34                    | 19.24                  | 20.5                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 19.25                 | 19.03                    | 19.61                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 19.16                 | 19.26                    | 19.14                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 19.17                 | 19.12                    | 19.13                  | 20.5                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 19.22                 | 18.99                    | 19.58                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 19.22                 | 19.27                    | 19.26                  | 20.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 19.21                 | 19.32                    | 19.21                  | 20.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 19.22                 | 19.32                    | 19.16                  | 20.5                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 19.24                 | 18.88                    | 19.56                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 90              | QPSK       | 1       | 1         | 19.18                 | 19.12                    | 19.11                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 80              | QPSK       | 1       | 1         | 19.17                 | 19.12                    | 19.12                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 70              | QPSK       | 1       | 1         | 19.14                 | 19.16                    | 19.10                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 60              | QPSK       | 1       | 1         | 19.18                 | 19.19                    | 19.09                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 50              | QPSK       | 1       | 1         | 19.21                 | 19.06                    | 19.19                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.16                 | 19.09                    | 19.14                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 19.13                 | 19.14                    | 19.18                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 1         | 19.07                 | 19.06                    | 19.14                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.13                 | 19.20                    | 19.19                  | 20.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.19                 | 19.18                    | 19.10                  | 20.5                | 0.0      |  |

| FCC_n41 HPUE_Ant 6 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 19.21                 | 19.23                    | 19.12                  |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 19.31                 | 19.35                    | 19.20                  | 20.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 271       | 19.25                 | 19.27                    | 19.16                  |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 19.20                 | 19.27                    | 19.16                  | 20.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 19.22                 | 19.29                    | 19.19                  | 20.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 19.20                 | 19.26                    | 19.20                  |                     |          |  |
| 100                | Pl2 BPSK   | 270     | 0         | 19.19                 | 19.32                    | 19.63                  | 20.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 19.33                 | 19.37                    | 19.33                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 19.30                 | 19.34                    | 19.24                  | 20.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 19.25                 | 19.03                    | 19.61                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 19.16                 | 19.26                    | 19.14                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 19.17                 | 19.12                    | 19.13                  | 20.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 19.22                 | 18.99                    | 19.58                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 19.22                 | 19.27                    | 19.26                  | 20.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 19.21                 | 19.32                    | 19.21                  | 20.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 19.22                 | 19.32                    | 19.16                  | 20.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 19.24                 | 18.88                    | 19.56                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 19.18                 | 19.12                    | 19.11                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 19.17                 | 19.12                    | 19.12                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 19.14                 | 19.16                    | 19.10                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 19.18                 | 19.19                    | 19.09                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 19.21                 | 19.06                    | 19.19                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 19.16                 | 19.09                    | 19.14                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 19.13                 | 19.14                    | 19.18                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 19.07                 | 19.08                    | 19.14                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 19.13                 | 19.20                    | 19.19                  | 20.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 19.19                 | 19.18                    | 19.10                  | 20.5                | 0.0      |  |

| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 21.69                 | 22.00                    | 21.71                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 137       | 21.66                 | 22.00                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 1       | 271       | 21.71                 | 21.96                    | 21.59                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 0         | 21.66                 | 22.04                    | 21.67                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 69        | 21.77                 | 22.03                    | 21.59                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 138       | 21.67                 | 21.98                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 270     | 0         | 21.73                 | 22.01                    | 21.66                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 21.75                 | 22.07                    | 21.74                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.74                 | 22.02                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 21.76                 | 22.02                    | 21.71                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 21.66                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.72                 | 22.02                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 21.68                 | 21.98                    | 21.62                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 21.76                 | 21.96                    | 21.66                  | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.64                 | 21.97                    | 21.73                  | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 1.5      |  |
| Channel         |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2547                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90              | QPSK       | 1       | 1         | 21.72                 | 22.00                    | 21.64                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80              | QPSK       | 1       | 1         | 21.73                 | 21.93                    | 21.70                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502502                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dB)     |  |
| 70              | QPSK       | 1       | 1         | 21.78                 | 21.96                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2524                  | 2592.99                  | 2658.98                | (dBm)               | (dB)     |  |
| 60              | QPSK       | 1       | 1         | 21.75                 | 21.95                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50              | QPSK       | 1       | 1         | 21.71                 | 22.00                    | 21.73                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40              | QPSK       | 1       | 1         | 21.64                 | 22.01                    | 21.72                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518598                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30              | QPSK       | 1       | 1         | 21.69                 | 21.96                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20              | QPSK       | 1       | 1         | 21.74                 | 21.90                    | 21.61                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15              | QPSK       | 1       | 1         | 21.74                 | 22.04                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10              | QPSK       | 1       | 1         | 21.66                 | 22.03                    | 21.72                  | 23.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz)     |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 1         | 23.76                 | 23.90                    | 23.60                  |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 137       | 23.64                 | 23.85                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 1       | 271       | 23.73                 | 23.89                    | 23.62                  |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 0         | 23.47                 | 23.56                    | 23.31                  | 24.5                | 0.5      |  |
| 100                 | PI2 BPSK   | 135     | 69        | 23.69                 | 23.87                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 135     | 138       | 23.35                 | 23.60                    | 23.27                  | 24.5                | 0.5      |  |
| 100                 | PI2 BPSK   | 270     | 0         | 23.45                 | 23.60                    | 23.22                  |                     |          |  |
| 100                 | QPSK       | 1       | 1         | 23.75                 | 23.99                    | 23.68                  |                     |          |  |
| 100                 | QPSK       | 1       | 137       | 23.65                 | 23.89                    | 23.51                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 1       | 271       | 23.70                 | 23.88                    | 23.59                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 22.68                 | 22.80                    | 22.43                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 23.60                 | 23.95                    | 23.61                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 138       | 22.75                 | 22.88                    | 22.37                  |                     |          |  |
| 100                 | QPSK       | 270     | 0         | 22.66                 | 22.94                    | 22.52                  | 24.0                | 1.0      |  |
| 100                 | 16QAM      | 1       | 1         | 22.66                 | 22.97                    | 22.64                  | 24.0                | 1.0      |  |
| 100                 | 16QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 2.5      |  |
| 100                 | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 3.5      |  |
| Channel             |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2547                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90                  | QPSK       | 1       | 1         | 23.65                 | 23.85                    | 23.52                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80                  | QPSK       | 1       | 1         | 23.67                 | 23.83                    | 23.50                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 502502                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dB)     |  |
| 70                  | QPSK       | 1       | 1         | 23.62                 | 23.87                    | 23.59                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2524                  | 2592.99                  | 2658.98                | (dBm)               | (dB)     |  |
| 60                  | QPSK       | 1       | 1         | 23.65                 | 23.90                    | 23.54                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50                  | QPSK       | 1       | 1         | 23.60                 | 23.81                    | 23.47                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40                  | QPSK       | 1       | 1         | 23.65                 | 23.88                    | 23.56                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 502200                | 518598                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30                  | QPSK       | 1       | 1         | 23.71                 | 23.91                    | 23.58                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20                  | QPSK       | 1       | 1         | 23.59                 | 23.93                    | 23.53                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15                  | QPSK       | 1       | 1         | 23.66                 | 23.84                    | 23.49                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10                  | QPSK       | 1       | 1         | 23.60                 | 23.79                    | 23.56                  | 25.0                | 0.0      |  |



| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 3370                  | 3524.99                  | 3679.98                |                     |          |  |
| 40               | Pl/2 BPSK  | 1       | 1         | 17.08                 | 17.03                    | 17.09                  |                     |          |  |
| 40               | Pl/2 BPSK  | 1       | 53        | 17.16                 | 17.24                    | 17.15                  | 18.0                | 0.0      |  |
| 40               | Pl/2 BPSK  | 1       | 104       | 16.97                 | 17.15                    | 17.04                  |                     |          |  |
| 40               | Pl/2 BPSK  | 50      | 0         | 16.93                 | 16.96                    | 17.03                  | 18.0                | 0.0      |  |
| 40               | Pl/2 BPSK  | 50      | 28        | 17.01                 | 16.90                    | 16.96                  | 18.0                | 0.0      |  |
| 40               | Pl/2 BPSK  | 50      | 56        | 17.14                 | 17.21                    | 17.10                  |                     |          |  |
| 40               | Pl/2 BPSK  | 100     | 0         | 16.92                 | 17.14                    | 16.99                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 1       | 1         | 17.16                 | 17.20                    | 17.22                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 17.12                 | 17.13                    | 17.17                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 17.06                 | 17.25                    | 17.14                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 17.11                 | 17.17                    | 17.08                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 17.11                 | 17.16                    | 17.13                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 17.02                 | 17.17                    | 17.09                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 17.11                 | 17.13                    | 17.12                  | 18.0                | 0.0      |  |
| 40               | 16QAM      | 1       | 1         | 17.10                 | 17.20                    | 17.20                  | 18.0                | 0.0      |  |
| 40               | 64QAM      | 1       | 1         | 17.14                 | 17.06                    | 17.06                  | 18.0                | 0.0      |  |
| 40               | 256QAM     | 1       | 1         | 17.07                 | 17.16                    | 17.09                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637668                | 641666                   | 646666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30               | QPSK       | 1       | 1         | 17.11                 | 17.16                    | 16.97                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20               | QPSK       | 1       | 1         | 17.12                 | 17.11                    | 17.11                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 3565                  | 3624.99                  | 3694.98                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 17.04                 | 17.08                    | 17.01                  | 18.0                | 0.0      |  |

| Part96_n48_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | Channel | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637000                | 641666                   | 646332                 |                     |          |  |
|                  |            |         |           | 3670                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | Pl/2 BPSK  | 1       | 1         | 22.71                 | 22.53                    | 22.30                  |                     |          |  |
| 40               | Pl/2 BPSK  | 1       | 53        | 22.54                 | 22.51                    | 22.30                  | 24.0                | 0.0      |  |
| 40               | Pl/2 BPSK  | 1       | 104       | 22.27                 | 22.28                    | 22.29                  |                     |          |  |
| 40               | Pl/2 BPSK  | 50      | 0         | 22.07                 | 22.12                    | 22.09                  | 23.5                | 0.5      |  |
| 40               | Pl/2 BPSK  | 50      | 28        | 22.50                 | 22.51                    | 22.28                  | 24.0                | 0.0      |  |
| 40               | Pl/2 BPSK  | 50      | 56        | 21.98                 | 22.07                    | 21.99                  |                     |          |  |
| 40               | Pl/2 BPSK  | 100     | 0         | 21.71                 | 21.83                    | 21.72                  | 23.5                | 0.5      |  |
| 40               | QPSK       | 1       | 1         | 22.73                 | 22.55                    | 22.34                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 22.44                 | 22.34                    | 22.28                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 22.31                 | 22.17                    | 22.16                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 21.18                 | 21.23                    | 21.20                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 22.04                 | 22.12                    | 22.11                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 20.81                 | 20.88                    | 20.82                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 21.45                 | 21.40                    | 21.35                  | 23.0                | 1.0      |  |
| 40               | 16QAM      | 1       | 1         | 20.39                 | 20.25                    | 20.53                  | 23.0                | 1.0      |  |
| 40               | 64QAM      | 1       | 1         | 18.71                 | 18.62                    | 18.92                  | 21.5                | 2.5      |  |
| 40               | 256QAM     | 1       | 1         | 16.87                 | 16.83                    | 17.12                  | 19.5                | 4.5      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637668                | 641666                   | 646666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30               | QPSK       | 1       | 1         | 22.68                 | 22.47                    | 22.33                  | 24.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20               | QPSK       | 1       | 1         | 22.67                 | 22.46                    | 22.25                  | 24.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 3565                  | 3624.99                  | 3694.98                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 22.68                 | 22.49                    | 22.26                  | 24.0                | 0.0      |  |

| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 636200                | 641666                   | 646332                 |                     |          |  |
|                   |            |         |           | 3670                  | 3624.99                  | 3679.98                |                     |          |  |
| 40                | Pl/2 BPSK  | 1       | 1         | 23.00                 | 23.00                    | 22.99                  |                     |          |  |
| 40                | Pl/2 BPSK  | 1       | 53        | 23.03                 | 23.05                    | 23.04                  | 24.0                | 0.0      |  |
| 40                | Pl/2 BPSK  | 1       | 104       | 23.00                 | 23.02                    | 23.02                  |                     |          |  |
| 40                | Pl/2 BPSK  | 50      | 0         | 22.83                 | 22.91                    | 22.80                  | 23.5                | 0.5      |  |
| 40                | Pl/2 BPSK  | 50      | 28        | 22.83                 | 22.89                    | 22.80                  | 24.0                | 0.0      |  |
| 40                | Pl/2 BPSK  | 50      | 56        | 22.83                 | 22.90                    | 22.82                  | 23.5                | 0.5      |  |
| 40                | Pl/2 BPSK  | 100     | 0         | 22.81                 | 22.87                    | 22.84                  | 23.5                | 0.5      |  |
| 40                | QPSK       | 1       | 1         | 23.08                 | 23.10                    | 23.03                  |                     |          |  |
| 40                | QPSK       | 1       | 53        | 22.98                 | 23.02                    | 22.93                  | 24.0                | 0.0      |  |
| 40                | QPSK       | 1       | 104       | 23.01                 | 23.09                    | 23.03                  |                     |          |  |
| 40                | QPSK       | 50      | 0         | 22.84                 | 22.90                    | 22.82                  |                     |          |  |
| 40                | QPSK       | 50      | 28        | 22.85                 | 22.93                    | 22.86                  | 24.0                | 0.0      |  |
| 40                | QPSK       | 50      | 56        | 22.74                 | 22.83                    | 22.78                  |                     |          |  |
| 40                | QPSK       | 100     | 0         | 22.86                 | 22.90                    | 22.86                  | 24.0                | 0.0      |  |
| 40                | 16QAM      | 1       | 1         | 20.93                 | 21.03                    | 20.94                  | 23.0                | 1.0      |  |
| 40                | 64QAM      | 1       | 1         | 18.44                 | 18.52                    | 18.50                  | 21.5                | 2.5      |  |
| 40                | 256QAM     | 1       | 1         | 17.48                 | 17.55                    | 17.52                  | 19.5                | 4.5      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 637668                | 641666                   | 646666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 22.99                 | 23.04                    | 23.01                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 23.03                 | 23.08                    | 22.99                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 637000                | 641666                   | 646332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3625                  | 3624.99                  | 3664.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 23.00                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |



| Part96_n48_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 630000                | 641666                   | 645332                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | PI2 BPSK   | 1       | 1         | 16.03                 | 16.10                    | 15.94                  | 17.5                |          |  |
| 40               | PI2 BPSK   | 1       | 53        | 15.81                 | 16.10                    | 15.84                  |                     |          |  |
| 40               | PI2 BPSK   | 1       | 104       | 15.96                 | 16.05                    | 15.89                  |                     |          |  |
| 40               | PI2 BPSK   | 50      | 0         | 15.97                 | 16.15                    | 16.02                  | 17.5                | 0.0      |  |
| 40               | PI2 BPSK   | 50      | 28        | 16.01                 | 16.02                    | 15.99                  | 17.5                | 0.0      |  |
| 40               | PI2 BPSK   | 50      | 56        | 15.94                 | 16.09                    | 15.92                  | 17.5                |          |  |
| 40               | PI2 BPSK   | 100     | 0         | 15.94                 | 16.09                    | 15.85                  |                     |          |  |
| 40               | QPSK       | 1       | 1         | 15.10                 | 15.23                    | 15.35                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 16.08                 | 16.18                    | 15.81                  | 17.5                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 15.83                 | 15.97                    | 15.84                  | 17.5                |          |  |
| 40               | QPSK       | 50      | 0         | 16.10                 | 16.07                    | 15.88                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 16.11                 | 16.15                    | 15.55                  |                     |          |  |
| 40               | QPSK       | 50      | 56        | 15.81                 | 15.95                    | 15.80                  | 17.5                | 0.0      |  |
| 40               | QPSK       | 100     | 0         | 16.01                 | 16.10                    | 15.81                  |                     |          |  |
| 40               | 16QAM      | 1       | 1         | 16.05                 | 16.15                    | 15.79                  |                     |          |  |
| 40               | 64QAM      | 1       | 1         | 15.94                 | 16.08                    | 15.77                  | 17.5                | 0.0      |  |
| 40               | 256QAM     | 1       | 1         | 15.81                 | 15.88                    | 15.81                  | 17.5                | 0.0      |  |
| Channel          |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)  |            |         |           | 3655.02               | 3624.99                  | 3694.98                | (dBm)               |          |  |
| 30               | QPSK       | 1       | 1         | 15.95                 | 15.97                    | 15.82                  | 17.5                | 0.0      |  |
| Channel          |            |         |           | 637234                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)  |            |         |           | 3660.01               | 3624.99                  | 3690                   | (dBm)               |          |  |
| 20               | QPSK       | 1       | 1         | 16.08                 | 16.03                    | 15.77                  | 17.5                | 0.0      |  |
| Channel          |            |         |           | 637000                | 641000                   | 642332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)  |            |         |           | 3555                  | 3624.99                  | 3694.98                | (dBm)               |          |  |
| 10               | QPSK       | 1       | 1         | 15.99                 | 16.00                    | 15.73                  | 17.5                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                | 633332                   | 3499.98                |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 17.47                    |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 17.56                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 17.53                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 17.49                    |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 17.54                    |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 17.54                    |                        | 18.5                |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 17.56                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 17.75                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 17.53                    |                        | 18.5                |          |  |
| 100               | QPSK       | 1       | 271       |                       | 17.51                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 17.66                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 17.65                    |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 17.54                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 17.65                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 17.60                    |                        | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 17.54                    |                        | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 17.56                    |                        | 18.0                | 0.5      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dB)                |          |  |
| 90                | QPSK       | 1       | 1         | 17.54                 | 17.58                    | 17.56                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dB)                |          |  |
| 80                | QPSK       | 1       | 1         | 17.58                 | 17.52                    | 17.52                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |  |
| 70                | QPSK       | 1       | 1         | 17.56                 | 17.58                    | 17.60                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                | (dB)                |          |  |
| 60                | QPSK       | 1       | 1         | 17.51                 | 17.54                    | 17.63                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |
| 50                | QPSK       | 1       | 1         | 17.64                 | 17.57                    | 17.60                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |  |
| 40                | QPSK       | 1       | 1         | 17.59                 | 17.63                    | 17.58                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dB)                |          |  |
| 30                | QPSK       | 1       | 1         | 17.53                 | 17.61                    | 17.55                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |
| 20                | QPSK       | 1       | 1         | 17.62                 | 17.54                    | 17.61                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dB)                |          |  |
| 15                | QPSK       | 1       | 1         | 17.51                 | 17.65                    | 17.62                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |  |
| 10                | QPSK       | 1       | 1         | 17.59                 | 17.54                    | 17.61                  | 18.5                | 0.0      |  |



| Part270_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |      |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 650000                | 650000                   | 660000                 | 3750                | 3840     | 3930 |  |
| 100               | Pl2 BPSK   | 1       | 1         | 17.46                 | 17.66                    | 17.56                  |                     |          |      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 17.67                 | 17.70                    | 17.62                  | 18.5                | 0.0      |      |  |
| 100               | Pl2 BPSK   | 1       | 271       | 17.60                 | 17.64                    | 17.64                  |                     |          |      |  |
| 100               | Pl2 BPSK   | 135     | 0         | 17.52                 | 17.63                    | 17.63                  | 18.5                | 0.0      |      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 17.58                 | 17.59                    | 17.55                  | 18.5                | 0.0      |      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 17.56                 | 17.77                    | 17.75                  |                     |          |      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 17.59                 | 17.69                    | 17.62                  | 18.5                | 0.0      |      |  |
| 100               | QPSK       | 1       | 1         | 17.70                 | 17.80                    | 17.75                  |                     |          |      |  |
| 100               | QPSK       | 1       | 137       | 17.56                 | 17.60                    | 17.63                  | 18.5                | 0.0      |      |  |
| 100               | QPSK       | 1       | 271       | 17.57                 | 17.65                    | 17.69                  |                     |          |      |  |
| 100               | QPSK       | 135     | 0         | 17.53                 | 17.58                    | 17.53                  |                     |          |      |  |
| 100               | QPSK       | 135     | 69        | 17.57                 | 17.77                    | 17.72                  | 18.5                | 0.0      |      |  |
| 100               | QPSK       | 135     | 138       | 17.59                 | 17.72                    | 17.64                  |                     |          |      |  |
| 100               | QPSK       | 270     | 0         | 17.66                 | 17.75                    | 17.73                  | 18.5                | 0.0      |      |  |
| 100               | 16QAM      | 1       | 1         | 17.67                 | 17.71                    | 17.65                  | 18.5                | 0.0      |      |  |
| 100               | 64QAM      | 1       | 1         | 17.63                 | 17.57                    | 17.54                  | 18.5                | 0.0      |      |  |
| 100               | 256QAM     | 1       | 1         | 17.55                 | 17.68                    | 17.58                  | 18.0                | 0.5      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 80                | QPSK       | 1       | 1         | 17.62                 | 17.63                    | 17.62                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 80                | QPSK       | 1       | 1         | 17.63                 | 17.74                    | 17.69                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 650000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 70                | QPSK       | 1       | 1         | 17.60                 | 17.63                    | 17.60                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 60                | QPSK       | 1       | 1         | 17.63                 | 17.64                    | 17.66                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 50                | QPSK       | 1       | 1         | 17.59                 | 17.68                    | 17.58                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 40                | QPSK       | 1       | 1         | 17.65                 | 17.67                    | 17.66                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 30                | QPSK       | 1       | 1         | 17.62                 | 17.63                    | 17.66                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 20                | QPSK       | 1       | 1         | 17.57                 | 17.75                    | 17.69                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 15                | QPSK       | 1       | 1         | 17.68                 | 17.74                    | 17.64                  | 18.5                | 0.0      |      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |  |
| Frequency (MHz)   |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |      |  |
| 10                | QPSK       | 1       | 1         | 17.65                 | 17.74                    | 17.58                  | 18.5                | 0.0      |      |  |

| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 63900                 | 63332                    | 63499.98               |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 17.47                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 17.56                    |                        | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 17.53                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 17.49                    |                        | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 17.54                    |                        | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 17.54                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 17.56                    |                        | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 1         |                       | 17.75                    |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       |                       | 17.53                    |                        | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       |                       | 17.51                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         |                       | 17.66                    |                        | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 69        |                       | 17.65                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 138       |                       | 17.56                    |                        |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         |                       | 17.65                    |                        | 18.5                | 0.0      |  |  |
| 100                    | 16QAM      | 1       | 1         |                       | 17.60                    |                        | 18.5                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         |                       | 17.54                    |                        | 18.5                | 0.0      |  |  |
| 100                    | 256QAM     | 1       | 1         |                       | 17.56                    |                        | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 633000                | 63332                    | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 90                     | QPSK       | 1       | 1         | 17.54                 | 17.58                    | 17.56                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 632668                | 63332                    | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                     | QPSK       | 1       | 1         | 17.58                 | 17.52                    | 17.52                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 632334                | 63332                    | 634112                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                     | QPSK       | 1       | 1         | 17.55                 | 17.58                    | 17.60                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 632000                | 63332                    | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                     | QPSK       | 1       | 1         | 17.51                 | 17.54                    | 17.63                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631668                | 63332                    | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                     | QPSK       | 1       | 1         | 17.54                 | 17.57                    | 17.60                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631334                | 63332                    | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                     | QPSK       | 1       | 1         | 17.59                 | 17.63                    | 17.58                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631000                | 63332                    | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                     | QPSK       | 1       | 1         | 17.53                 | 17.61                    | 17.55                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630668                | 63332                    | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                     | QPSK       | 1       | 1         | 17.62                 | 17.54                    | 17.61                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630300                | 63332                    | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                     | QPSK       | 1       | 1         | 17.51                 | 17.58                    | 17.60                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630334                | 63332                    | 636312                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                     | QPSK       | 1       | 1         | 17.59                 | 17.54                    | 17.61                  | 18.5                | 0.0      |  |  |

| Part270_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 17.46                 | 17.66                    | 17.56                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 17.67                 | 17.70                    | 17.62                  | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 17.60                 | 17.64                    | 17.64                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 17.52                 | 17.63                    | 17.63                  | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 17.58                 | 17.59                    | 17.55                  | 18.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 17.56                 | 17.77                    | 17.75                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 17.59                 | 17.69                    | 17.62                  | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 1         | 17.70                 | 17.80                    | 17.75                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 17.56                 | 17.60                    | 17.63                  | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 17.57                 | 17.65                    | 17.69                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 17.53                 | 17.58                    | 17.53                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        | 17.57                 | 17.77                    | 17.72                  | 18.5                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 17.59                 | 17.72                    | 17.64                  |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 17.66                 | 17.75                    | 17.73                  | 18.5                | 0.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 17.67                 | 17.71                    | 17.65                  | 18.5                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 17.63                 | 17.57                    | 17.54                  | 18.5                | 0.0      |  |  |
| 100                    | 256QAM     | 1       | 1         | 17.55                 | 17.68                    | 17.58                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 90                     | QPSK       | 1       | 1         | 17.63                 | 17.63                    | 17.62                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                     | QPSK       | 1       | 1         | 17.63                 | 17.74                    | 17.69                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                     | QPSK       | 1       | 1         | 17.66                 | 17.63                    | 17.60                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 646332                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                     | QPSK       | 1       | 1         | 17.63                 | 17.64                    | 17.66                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 645000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                     | QPSK       | 1       | 1         | 17.58                 | 17.68                    | 17.58                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 643000                | 650000                   | 666000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                     | QPSK       | 1       | 1         | 17.65                 | 17.67                    | 17.66                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 641668                | 650000                   | 668332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                     | QPSK       | 1       | 1         | 17.63                 | 17.63                    | 17.66                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 641334                | 650000                   | 668666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                     | QPSK       | 1       | 1         | 17.57                 | 17.76                    | 17.69                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 640000                | 650000                   | 669332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                     | QPSK       | 1       | 1         | 17.65                 | 17.74                    | 17.64                  | 18.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 639000                | 650000                   | 670000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                     | QPSK       | 1       | 1         | 17.65                 | 17.74                    | 17.58                  | 18.5                | 0.0      |  |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                | 3499.98                  |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 20.94                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 20.93                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 20.96                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 20.97                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 20.92                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 20.96                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 21.04                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 20.96                 |                          |                        | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 20.88                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 20.92                 |                          |                        | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.96                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 20.94                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.46                 |                          |                        | 21.5                | 0.5      |
| 100             | 256QAM     | 1       | 1         | 18.42                 |                          |                        | 19.5                | 2.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3496.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 20.96                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632834                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 20.93                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 650000                | 650000                   | 650000                 |                     |          |
|                 |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 20.97                 | 21.00                    | 21.01                  |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 20.98                 | 21.01                    | 20.96                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 20.90                 | 21.00                    | 20.96                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 20.93                 | 21.03                    | 20.95                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 20.95                 | 21.03                    | 20.99                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 20.95                 | 21.00                    | 20.95                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 20.92                 | 21.02                    | 21.00                  |                     |          |
| 100             | QPSK       | 1       | 1         | 21.00                 | 21.06                    | 21.03                  |                     |          |
| 100             | QPSK       | 1       | 137       | 20.94                 | 21.02                    | 21.00                  | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 20.94                 | 20.97                    | 20.99                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.94                 | 20.98                    | 21.00                  |                     |          |
| 100             | QPSK       | 135     | 69        | 20.95                 | 21.05                    | 21.02                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 20.90                 | 20.96                    | 20.98                  |                     |          |
| 100             | QPSK       | 270     | 0         | 20.90                 | 20.97                    | 20.95                  | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.98                 | 20.96                    | 20.94                  | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.44                 | 20.96                    | 20.40                  | 21.5                | 0.5      |
| 100             | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 2.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3742.02               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 20.92                 | 21.04                    | 20.99                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3740.01               | 3840                     | 3939.98                |                     |          |
| 80              | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 21.01                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 20.94                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3732.02               | 3840                     | 3948.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.96                 | 21.00                    | 20.95                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3725.01               | 3840                     | 3954.98                |                     |          |
| 50              | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 20.95                 | 21.02                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.91                 | 21.02                    | 20.94                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3712.01               | 3840                     | 3969.98                |                     |          |
| 20              | QPSK       | 1       | 1         | 20.92                 | 21.02                    | 20.93                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.93                 | 20.99                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 20.96                  | 22.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      | 3499.98                        |                              |                        |             |
| 100             | Pl2 BPSK   | 1       | 1         | 22.98                       |                                |                              |                        |             |
| 100             | Pl2 BPSK   | 1       | 137       | 22.84                       |                                |                              | 24.0                   | 0.0         |
| 100             | Pl2 BPSK   | 1       | 271       | 22.86                       |                                |                              |                        |             |
| 100             | Pl2 BPSK   | 135     | 0         | 22.94                       |                                |                              | 23.5                   | 0.5         |
| 100             | Pl2 BPSK   | 135     | 69        | 22.93                       |                                |                              | 24.0                   | 0.0         |
| 100             | Pl2 BPSK   | 135     | 138       | 22.44                       |                                |                              | 23.5                   | 0.5         |
| 100             | Pl2 BPSK   | 270     | 0         | 22.41                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 23.01                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 22.51                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 22.06                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 21.96                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 22.68                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 138       | 21.34                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 21.56                       |                                |                              | 23.0                   | 1.0         |
| 100             | 16QAM      | 1       | 1         | 20.51                       |                                |                              | 21.5                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 18.42                       |                                |                              | 19.5                   | 4.5         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 22.85                       | 22.95                          | 22.89                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632968                      | 633332                         | 634000                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3496.02                     | 3499.98                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 22.91                       | 22.94                          | 22.93                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632834                      | 633332                         | 634332                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
| 70              | QPSK       | 1       | 1         | 22.90                       | 22.98                          | 22.87                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632700                      | 633332                         | 633998                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3480                        | 3499.98                        | 3519.99                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.84                       | 22.99                          | 22.87                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632566                      | 633332                         | 633600                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3475.02                     | 3499.98                        | 3505                         |                        |             |
| 50              | QPSK       | 1       | 1         | 22.83                       | 22.98                          | 22.92                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632432                      | 633332                         | 633532                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3470.03                     | 3499.98                        | 3505.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 22.83                       | 22.95                          | 22.93                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3455                        | 3499.98                        | 3524.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.98                       | 22.98                          | 22.84                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 635000                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3440.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 22.86                       | 23.00                          | 22.94                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 634666                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3435.03                     | 3499.98                        | 3542.99                      |                        |             |
| 15              | QPSK       | 1       | 1         | 22.96                       | 22.95                          | 22.91                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630000                      | 633332                         | 634332                       | Tune-up limit (dBm)    | MPR (dB)    |
|                 |            |         |           | 3430.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.94                       | 22.99                          | 22.92                        | 24.0                   | 0.0         |

| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
|                        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.97                 | 23.03                    | 22.91                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 23.04                 | 23.07                    | 23.04                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.95                 | 22.96                    | 22.91                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.34                 | 22.38                    | 22.36                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.92                 | 23.02                    | 22.87                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.40                 | 22.43                    | 22.34                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.26                 | 22.41                    | 22.38                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 23.01                 | 23.09                    | 23.04                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 22.99                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 22.98                 | 23.02                    | 22.87                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 21.94                 | 21.94                    | 21.85                  | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 69        | 22.31                 | 22.97                    | 22.74                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 138       | 21.90                 | 21.95                    | 21.86                  |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 21.73                 | 21.87                    | 21.76                  | 23.0                | 1.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 21.96                 | 22.11                    | 22.08                  | 23.0                | 1.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 20.44                 | 20.56                    | 20.49                  | 21.5                | 2.5      |  |  |
| 100                    | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 4.5      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.96                 | 23.08                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 660966                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.01               | 3840                     | 3939.99                |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.83                 | 23.01                    | 22.91                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                     | QPSK       | 1       | 1         | 22.88                 | 22.94                    | 22.90                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.02               | 3840                     | 3949.98                |                     |          |  |  |
| 60                     | QPSK       | 1       | 1         | 22.96                 | 23.05                    | 22.87                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |  |
| 50                     | QPSK       | 1       | 1         | 22.90                 | 23.05                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                     | QPSK       | 1       | 1         | 22.87                 | 23.03                    | 22.93                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |  |
| 30                     | QPSK       | 1       | 1         | 22.92                 | 23.07                    | 22.93                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3713.01               | 3840                     | 3966.99                |                     |          |  |  |
| 20                     | QPSK       | 1       | 1         | 22.89                 | 23.02                    | 22.88                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |  |
| 15                     | QPSK       | 1       | 1         | 22.83                 | 23.04                    | 22.97                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                     | QPSK       | 1       | 1         | 22.84                 | 23.08                    | 22.89                  | 24.0                | 0.0      |  |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 639000                | 633332                   | 634998                 |                     |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 22.80                    |                        |                     |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 22.77                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 22.72                    |                        |                     |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 22.75                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 22.72                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 22.72                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 22.76                    |                        |                     |                     |          |  |
| 100                | QPSK       | 1       | 1         |                       | 22.81                    |                        |                     |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 22.75                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 1       | 271       |                       | 22.71                    |                        |                     |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 22.70                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 135     | 69        |                       | 22.73                    |                        |                     |                     |          |  |
| 100                | QPSK       | 135     | 138       |                       | 22.48                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 270     | 0         |                       | 22.64                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 16QAM      | 1       | 1         |                       | 22.86                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 64QAM      | 1       | 1         |                       | 21.43                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 256QAM     | 1       | 1         |                       | 22.08                    |                        | 22.5                | 1.5                 |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 639000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |                     |          |  |
| 90                 | QPSK       | 1       | 1         |                       | 632668                   | 633332                 | 634000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6340.02               | 6349.98                  | 63510                  |                     |                     |          |  |
| 80                 | QPSK       | 1       | 1         |                       | 632334                   | 633332                 | 634332              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6345.01               | 6349.98                  | 63514.98               |                     |                     |          |  |
| 70                 | QPSK       | 1       | 1         |                       | 632000                   | 633332                 | 634666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6340.01               | 6349.98                  | 63518.98               |                     |                     |          |  |
| 60                 | QPSK       | 1       | 1         |                       | 631668                   | 633332                 | 634000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6345.02               | 6349.98                  | 63525                  |                     |                     |          |  |
| 50                 | QPSK       | 1       | 1         |                       | 631334                   | 633332                 | 633532              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 63470.01              | 6349.98                  | 63529.98               |                     |                     |          |  |
| 40                 | QPSK       | 1       | 1         |                       | 631000                   | 633332                 | 633666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6345.03               | 6349.98                  | 63534.99               |                     |                     |          |  |
| 30                 | QPSK       | 1       | 1         |                       | 630668                   | 633332                 | 633000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6340.02               | 6349.98                  | 6340                   |                     |                     |          |  |
| 20                 | QPSK       | 1       | 1         |                       | 630334                   | 633332                 | 633332              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6345.05               | 6349.98                  | 63454.98               |                     |                     |          |  |
| 15                 | QPSK       | 1       | 1         |                       | 630000                   | 633332                 | 633666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 6345.01               | 6349.98                  | 63444.98               |                     |                     |          |  |
| 10                 | QPSK       | 1       | 1         |                       | 629668                   | 633332                 | 633000              | Tune-up limit (dBm) | MPR (dB) |  |

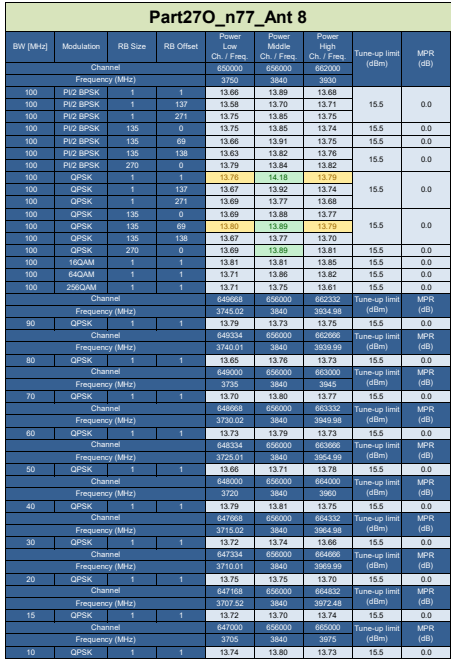
| Part270_n77_Ant 10 |            |         |           |                       |                          |                        |                    |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPR (dB) |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 650000                | 650000                   | 660000                 |                    |          |  |  |
| 100                | PSK2 BPSK  | 1       | 1         | 22.87                 | 22.82                    | 22.76                  |                    |          |  |  |
| 100                | PSK2 BPSK  | 1       | 127       | 22.80                 | 22.87                    | 22.78                  | 24.0               | 0.0      |  |  |
| 100                | PSK2 BPSK  | 135     | 0         | 22.87                 | 22.82                    | 22.76                  |                    |          |  |  |
| 100                | PSK2 BPSK  | 135     | 0         | 22.83                 | 22.90                    | 22.79                  | 24.0               | 0.0      |  |  |
| 100                | PSK2 BPSK  | 135     | 136       | 22.87                 | 22.88                    | 22.81                  | 24.0               | 0.0      |  |  |
| 100                | PSK2 BPSK  | 270     | 0         | 22.76                 | 22.87                    | 22.78                  | 24.0               | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         | 22.88                 | 22.82                    | 22.84                  |                    |          |  |  |
| 100                | QPSK       | 1       | 137       | 22.88                 | 22.82                    | 22.80                  | 24.0               | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 22.81                 | 22.85                    | 22.78                  |                    |          |  |  |
| 100                | QPSK       | 135     | 0         | 22.88                 | 22.83                    | 22.78                  |                    |          |  |  |
| 100                | QPSK       | 135     | 69        | 22.90                 | 22.86                    | 22.79                  | 24.0               | 0.0      |  |  |
| 100                | QPSK       | 135     | 136       | 22.82                 | 22.85                    | 22.77                  |                    |          |  |  |
| 100                | QPSK       | 270     | 0         | 22.88                 | 22.82                    | 22.77                  | 24.0               | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         | 22.88                 | 22.87                    | 22.74                  |                    |          |  |  |
| 100                | 64QAM      | 1       | 1         | 22.90                 | 22.85                    | 22.79                  | 24.0               | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         | 21.89                 | 22.00                    | 21.96                  | 23.0               | 1.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 646354                | 650000                   | 662632                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 90                 | QPSK       | 1       | 1         | 22.88                 | 22.86                    | 22.78                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 80                 | QPSK       | 1       | 1         | 22.87                 | 22.80                    | 22.77                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 649000                | 650000                   | 663000                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 70                 | QPSK       | 1       | 1         | 22.86                 | 22.78                    | 22.77                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 649900                | 650000                   | 663333                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 60                 | QPSK       | 1       | 1         | 22.84                 | 22.86                    | 22.73                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 650500                | 650000                   | 663000                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 22.83                 | 22.90                    | 22.79                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 40                 | QPSK       | 1       | 1         | 22.82                 | 22.80                    | 22.80                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 647100                | 22.82                    | 22.78                  | 24.0               | 0.0      |  |  |
| 30                 | QPSK       | 1       | 1         | 22.87                 | 22.80                    | 22.74                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 20                 | QPSK       | 1       | 1         | 22.88                 | 22.86                    | 22.69                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 647100                | 650000                   | 663924                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 15                 | QPSK       | 1       | 1         | 22.91                 | 22.86                    | 22.69                  | 24.0               | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                    |          |  |  |
| Frequency (MHz)    |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dB) | MPR (dB) |  |  |
| 10                 | QPSK       | 1       | 1         | 22.95                 | 22.80                    | 22.72                  | 24.0               | 0.0      |  |  |



| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |         |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |         |
| Channel                 |            |         |           |                       |                          |                        | 63332               |          |         |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3499.98             |          |         |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 26.12                    |                        | 27.0                | 0.0      |         |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 26.03                    |                        |                     |          |         |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 26.08                    |                        |                     |          |         |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 26.02                    |                        | 26.5                | 0.5      |         |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 26.01                    |                        | 27.0                | 0.0      |         |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 25.97                    |                        | 26.5                | 0.5      |         |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 25.91                    |                        |                     |          |         |
| 100                     | QPSK       | 1       | 1         |                       | 25.15                    |                        |                     |          |         |
| 100                     | QPSK       | 1       | 137       |                       | 26.03                    |                        | 27.0                | 0.0      |         |
| 100                     | QPSK       | 1       | 271       |                       | 26.11                    |                        | 27.0                | 0.0      |         |
| 100                     | QPSK       | 135     | 0         |                       | 25.58                    |                        |                     |          |         |
| 100                     | QPSK       | 135     | 69        |                       | 25.52                    |                        |                     |          |         |
| 100                     | QPSK       | 135     | 138       |                       | 25.42                    |                        |                     |          |         |
| 100                     | QPSK       | 270     | 0         |                       | 25.21                    |                        |                     |          |         |
| 100                     | 16QAM      | 1       | 1         |                       | 25.91                    |                        | 26.0                | 1.0      |         |
| 100                     | 16QAM      | 1       | 1         |                       | 24.42                    |                        | 24.5                | 2.5      |         |
| 100                     | 256QAM     | 1       | 1         |                       | 22.31                    |                        | 22.5                | 4.5      |         |
| Channel                 |            |         |           |                       |                          |                        | 633000              | 633332   | 633666  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3495                | 3499.98  | 3504.98 |
| 80                      | QPSK       | 1       | 1         |                       | 25.17                    | 25.09                  | 25.98               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 632668              | 633332   | 634000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3496.02             | 3499.98  | 3510    |
| 80                      | QPSK       | 1       | 1         |                       | 25.91                    | 25.85                  | 25.96               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 632334              | 633332   | 634332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3485.01             | 3499.98  | 3514.98 |
| 70                      | QPSK       | 1       | 1         |                       | 25.91                    | 25.84                  | 25.82               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 632000              | 633332   | 634666  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3480                | 3499.98  | 3519.98 |
| 60                      | QPSK       | 1       | 1         |                       | 25.80                    | 25.89                  | 25.83               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 631668              | 633332   | 635000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3475.02             | 3499.98  | 3525    |
| 50                      | QPSK       | 1       | 1         |                       | 25.78                    | 25.84                  | 25.86               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 631334              | 633332   | 635332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3470.01             | 3499.98  | 3529.98 |
| 40                      | QPSK       | 1       | 1         |                       | 25.87                    | 25.98                  | 25.97               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 631000              | 633332   | 635666  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3465                | 3499.98  | 3534.98 |
| 30                      | QPSK       | 1       | 1         |                       | 25.81                    | 25.81                  | 25.87               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 630668              | 633332   | 636000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3460.02             | 3499.98  | 3540    |
| 20                      | QPSK       | 1       | 1         |                       | 25.88                    | 25.89                  | 25.79               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 630300              | 633332   | 636366  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3457.5              | 3499.98  | 3542.48 |
| 15                      | QPSK       | 1       | 1         |                       | 25.96                    | 25.97                  | 25.96               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 630000              | 633332   | 636700  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3455.01             | 3499.98  | 3544.98 |
| 10                      | QPSK       | 1       | 1         |                       | 25.88                    | 25.82                  | 25.97               | 27.0     | 0.0     |

| Part27O_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |         |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |         |
| Channel                 |            |         |           |                       |                          |                        | 65000               | 65000    | 65000   |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3750                | 3840     | 3930    |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 25.82                    | 25.89                  | 25.76               | 27.0     | 0.0     |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 25.84                    | 25.89                  | 25.74               |          |         |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 25.90                    | 25.86                  | 25.83               |          |         |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 25.73                    | 25.62                  | 25.68               | 26.5     | 0.5     |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 25.78                    | 25.69                  | 25.72               | 27.0     | 0.0     |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 25.77                    | 25.71                  | 25.66               | 26.5     | 0.5     |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 25.66                    | 25.61                  | 25.63               |          |         |
| 100                     | QPSK       | 1       | 1         |                       | 25.91                    | 25.88                  | 25.77               |          |         |
| 100                     | QPSK       | 1       | 137       |                       | 25.85                    | 25.86                  | 25.70               | 27.0     | 0.0     |
| 100                     | QPSK       | 1       | 271       |                       | 25.90                    | 25.73                  | 25.65               |          |         |
| 100                     | QPSK       | 135     | 0         |                       | 25.25                    | 25.02                  | 25.06               |          |         |
| 100                     | QPSK       | 135     | 69        |                       | 25.72                    | 25.62                  | 25.66               | 27.0     | 0.0     |
| 100                     | QPSK       | 135     | 138       |                       | 25.33                    | 25.13                  | 25.08               |          |         |
| 100                     | QPSK       | 270     | 0         |                       | 25.24                    | 24.88                  | 24.82               |          |         |
| 100                     | 16QAM      | 1       | 1         |                       | 25.39                    | 24.77                  | 24.73               | 26.0     | 1.0     |
| 100                     | 16QAM      | 1       | 1         |                       | 23.94                    | 23.45                  | 23.38               | 24.5     | 2.5     |
| 100                     | 256QAM     | 1       | 1         |                       | 21.89                    | 22.00                  | 21.96               | 22.5     | 4.5     |
| Channel                 |            |         |           |                       |                          |                        | 649668              | 650000   | 650332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3742.02             | 3740     | 3924.98 |
| 90                      | QPSK       | 1       | 1         |                       | 25.13                    | 25.70                  | 25.76               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 649334              | 650000   | 650668  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3740.01             | 3840     | 3936.98 |
| 80                      | QPSK       | 1       | 1         |                       | 25.78                    | 25.74                  | 25.68               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 649000              | 650000   | 651000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3735                | 3840     | 3945    |
| 70                      | QPSK       | 1       | 1         |                       | 25.73                    | 25.72                  | 25.69               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 648668              | 650000   | 651332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3732.01             | 3840     | 3948.98 |
| 60                      | QPSK       | 1       | 1         |                       | 25.74                    | 25.86                  | 25.65               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 648334              | 650000   | 651668  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3725.01             | 3840     | 3954.98 |
| 50                      | QPSK       | 1       | 1         |                       | 25.78                    | 25.82                  | 25.63               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 648000              | 650000   | 652000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3720                | 3840     | 3960    |
| 40                      | QPSK       | 1       | 1         |                       | 25.77                    | 25.77                  | 25.65               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 647668              | 650000   | 652332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3715.02             | 3840     | 3964.98 |
| 30                      | QPSK       | 1       | 1         |                       | 25.85                    | 25.87                  | 25.58               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 647334              | 650000   | 652668  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3713.01             | 3840     | 3969.98 |
| 20                      | QPSK       | 1       | 1         |                       | 25.75                    | 25.70                  | 25.72               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 647000              | 650000   | 653000  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3707.52             | 3840     | 3972.48 |
| 15                      | QPSK       | 1       | 1         |                       | 25.78                    | 25.71                  | 25.67               | 27.0     | 0.0     |
| Channel                 |            |         |           |                       |                          |                        | 646700              | 650000   | 653332  |
| Frequency (MHz)         |            |         |           |                       |                          |                        | 3705                | 3840     | 3975    |
| 10                      | QPSK       | 1       | 1         |                       | 25.71                    | 25.87                  | 25.65               | 27.0     | 0.0     |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |         |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |         |
| Channel           |            |         |           |                       |                          |                        | 633332              |          |         |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3499.98             |          |         |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 14.23                    |                        | 15.5                | 0.0      |         |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 14.35                    |                        |                     |          |         |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 14.17                    |                        |                     |          |         |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 14.32                    |                        | 15.5                | 0.0      |         |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 14.27                    |                        | 15.5                | 0.0      |         |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 14.33                    |                        | 15.5                | 0.0      |         |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 14.31                    |                        |                     |          |         |
| 100               | QPSK       | 1       | 1         |                       | 14.42                    |                        |                     |          |         |
| 100               | QPSK       | 1       | 137       |                       | 14.16                    |                        | 15.5                | 0.0      |         |
| 100               | QPSK       | 1       | 271       |                       | 14.27                    |                        |                     |          |         |
| 100               | QPSK       | 135     | 0         |                       | 14.36                    |                        |                     |          |         |
| 100               | QPSK       | 135     | 69        |                       | 14.38                    |                        | 15.5                | 0.0      |         |
| 100               | QPSK       | 135     | 138       |                       | 14.19                    |                        |                     |          |         |
| 100               | QPSK       | 270     | 0         |                       | 14.30                    |                        |                     |          |         |
| 100               | 16QAM      | 1       | 1         |                       | 14.41                    |                        | 15.5                | 0.0      |         |
| 100               | 64QAM      | 1       | 1         |                       | 14.15                    |                        | 15.5                | 0.0      |         |
| 100               | 256QAM     | 1       | 1         |                       | 14.25                    |                        | 15.5                | 0.0      |         |
| Channel           |            |         |           |                       |                          |                        | 633000              | 633332   | 633666  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3495                | 3499.98  | 3504.98 |
| 90                | QPSK       | 1       | 1         |                       | 14.23                    | 14.28                  | 14.29               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 632668              | 633332   | 634000  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3490.02             | 3499.98  | 3510    |
| 80                | QPSK       | 1       | 1         |                       | 14.26                    | 14.15                  | 14.15               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 632334              | 633332   | 634332  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3485.01             | 3499.98  | 3514.98 |
| 70                | QPSK       | 1       | 1         |                       | 14.21                    | 14.29                  | 14.26               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 632000              | 633332   | 634666  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3480.01             | 3499.98  | 3519.99 |
| 60                | QPSK       | 1       | 1         |                       | 14.28                    | 14.20                  | 14.18               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 631334              | 633332   | 633332  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3470.52             | 3499.98  | 3509.46 |
| 50                | QPSK       | 1       | 1         |                       | 14.22                    | 14.24                  | 14.18               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 631334              | 633332   | 633332  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3470.52             | 3499.98  | 3509.46 |
| 40                | QPSK       | 1       | 1         |                       | 14.23                    | 14.29                  | 14.27               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 631000              | 632332   | 633666  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3460                | 3499.98  | 3524.99 |
| 30                | QPSK       | 1       | 1         |                       | 14.20                    | 14.22                  | 14.25               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 630666              | 633332   | 633000  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3460.02             | 3499.98  | 3540    |
| 20                | QPSK       | 1       | 1         |                       | 14.21                    | 14.21                  | 14.18               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 630332              | 633332   | 631000  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3457.5              | 3499.98  | 3542.49 |
| 15                | QPSK       | 1       | 1         |                       | 14.20                    | 14.20                  | 14.19               | 15.5     | 0.0     |
| Channel           |            |         |           |                       |                          |                        | 630000              | 633332   | 633332  |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 3455.01             | 3499.98  | 3544.98 |
| 10                | QPSK       | 1       | 1         |                       | 14.22                    | 14.15                  | 14.18               | 15.5     | 0.0     |



| Part27Q_n77 HPUE Ant 8 |            |                 |           |                      |                      |                       |                     |                     |          |
|------------------------|------------|-----------------|-----------|----------------------|----------------------|-----------------------|---------------------|---------------------|----------|
| BW [MHz]               | Modulation | RB Size         | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq. | Turn-up limit (dBm) | MPR (dB)            |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 1               | 1         | 14.23                | 14.23                | 14.23                 |                     |                     |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 1               | 137       | 14.23                | 14.17                | 14.17                 |                     |                     |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 135             | 15        | 14.35                | 14.35                | 14.35                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 135             | 69        | 14.27                | 14.27                | 14.27                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 135             | 135       | 14.35                | 14.35                | 14.35                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | PQPSK      | 270             | 0         | 14.28                | 14.28                | 14.28                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 1               | 1         | 14.42                | 14.42                | 14.42                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 1               | 137       | 14.16                | 14.16                | 14.16                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 1               | 271       | 14.27                | 14.27                | 14.27                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 135             | 0         | 14.38                | 14.38                | 14.38                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 135             | 69        | 14.38                | 14.38                | 14.38                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 135             | 136       | 14.14                | 14.14                | 14.14                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | QPSK       | 270             | 0         | 14.30                | 14.30                | 14.30                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | 16QAM      | 1               | 1         | 14.41                | 14.41                | 14.41                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | 64QAM      | 1               | 1         | 14.15                | 14.15                | 14.15                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               |                       |                     |                     |          |
| 100                    | 256QAM     | 1               | 1         | 14.25                | 14.25                | 14.25                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635300               | 635332                | 635332              | Turn-up limit (dBm) | MPR (dB) |
| 90                     | QPSK       | 1               | 1         | 14.23                | 14.28                | 14.28                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 632688               | 635332                | 634000              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 635332               | 635332                | 635332              | Turn-up limit (dBm) | MPR (dB) |
| 80                     | QPSK       | 1               | 1         | 14.26                | 14.15                | 14.15                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 632334               | 635332                | 634332              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3486.01              | 3499.98               | 3514.98             | Turn-up limit (dBm) | MPR (dB) |
| 70                     | QPSK       | 1               | 1         | 14.21                | 14.20                | 14.20                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 635000               | 635332                | 635000              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3480                 | 3499.98               | 3519.99             | Turn-up limit (dBm) | MPR (dB) |
| 60                     | QPSK       | 1               | 1         | 14.28                | 14.20                | 14.18                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 631668               | 635332                | 635000              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3475.02              | 3499.98               | 3525                | Turn-up limit (dBm) | MPR (dB) |
| 50                     | QPSK       | 1               | 1         | 14.22                | 14.24                | 14.18                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 631334               | 635332                | 635332              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3470.01              | 3499.98               | 3529.99             | Turn-up limit (dBm) | MPR (dB) |
| 40                     | QPSK       | 1               | 1         | 14.23                | 14.29                | 14.27                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 631000               | 635332                | 636966              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3465                 | 3499.98               | 3534.99             | Turn-up limit (dBm) | MPR (dB) |
| 30                     | QPSK       | 1               | 1         | 14.29                | 14.22                | 14.25                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 630668               | 635332                | 636000              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3460.02              | 3499.98               | 3540                | Turn-up limit (dBm) | MPR (dB) |
| 20                     | QPSK       | 1               | 1         | 14.21                | 14.21                | 14.18                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 630500               | 635332                | 637000              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3457.5               | 3499.98               | 3542.49             | Turn-up limit (dBm) | MPR (dB) |
| 15                     | QPSK       | 1               | 1         | 14.20                | 14.20                | 14.19                 | 15.5                | 0.0                 |          |
|                        | Channel    | Frequency (MHz) |           |                      | 630334               | 635332                | 636792              | Turn-up limit (dBm) | MPR (dB) |
|                        | Channel    | Frequency (MHz) |           |                      | 3458.94              | 3499.98               | 3538                | Turn-up limit (dBm) | MPR (dB) |
| 10                     | QPSK       | 1               | 1         | 14.22                | 14.15                | 14.18                 | 15.5                | 0.0                 |          |

| Part270_n77 HPUE_Ant 8 |                 |         |           |                      |                       |                    |                    |          |  |
|------------------------|-----------------|---------|-----------|----------------------|-----------------------|--------------------|--------------------|----------|--|
| BW [MHz]               | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Freq. Offset | Turn-up time (dBm) | MPR (dB) |  |
|                        |                 |         |           | 650000               | 660000                | 662000             |                    |          |  |
|                        |                 |         |           | 3700                 | 3800                  | 3900               |                    |          |  |
| 100                    | PQ2 BPSK        | 1       | 1         | 13.66                | 13.89                 | 13.68              |                    |          |  |
|                        | PQ2 BPSK        | 1       | 137       | 13.58                | 13.70                 | 13.71              | 15.5               | 0.0      |  |
|                        | PQ2 BPSK        | 1       | 271       | 13.76                | 13.86                 | 13.75              |                    |          |  |
| 100                    | PQ2 BPSK        | 135     | 15        | 13.75                | 13.85                 | 13.74              | 15.5               | 0.0      |  |
| 100                    | PQ2 BPSK        | 135     | 156       | 13.66                | 13.81                 | 13.75              |                    |          |  |
|                        | PQ2 BPSK        | 135     | 138       | 13.63                | 13.82                 | 13.73              | 15.5               | 0.0      |  |
|                        | PQ2 BPSK        | 270     | 0         | 13.78                | 13.84                 | 13.82              |                    |          |  |
|                        | QPSK            | 1       | 1         | 13.76                | 13.86                 | 13.75              |                    |          |  |
| 100                    | QPSK            | 1       | 137       | 13.87                | 13.92                 | 13.74              | 15.5               | 0.0      |  |
|                        | QPSK            | 1       | 271       | 13.69                | 13.77                 | 13.68              |                    |          |  |
|                        | QPSK            | 138     | 0         | 13.69                | 13.68                 | 13.77              |                    |          |  |
| 100                    | QPSK            | 135     | 69        | 13.90                | 13.89                 | 13.74              | 15.5               | 0.0      |  |
|                        | QPSK            | 135     | 136       | 13.87                | 13.77                 | 13.70              |                    |          |  |
| 100                    | QPSK            | 270     | 0         | 13.69                | 13.89                 | 13.81              | 15.5               | 0.0      |  |
| 100                    | 16QAM           | 1       | 1         | 13.81                | 13.81                 | 13.86              | 15.5               | 0.0      |  |
|                        | 64QAM           | 1       | 1         | 13.71                | 13.86                 | 13.82              | 15.5               | 0.0      |  |
| 100                    | 256QAM          | 1       | 1         | 13.71                | 13.75                 | 13.61              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665968               | 660000                | 662332             | Turn-up time (dBm) | MPR (dB) |  |
| 50                     | QPSK            | 1       | 1         | 13.79                | 13.73                 | 13.75              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665334               | 660000                | 665666             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3944.62              | 3940                  | 3948.99            |                    |          |  |
| 50                     | QPSK            | 1       | 1         | 13.65                | 13.70                 | 13.73              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665000               | 660000                | 665300             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3795                 | 3840                  | 3945               |                    |          |  |
| 70                     | QPSK            | 1       | 1         | 13.70                | 13.80                 | 13.77              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665968               | 660000                | 662332             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3790.02              | 3840                  | 3949.98            |                    |          |  |
| 80                     | QPSK            | 1       | 1         | 13.73                | 13.79                 | 13.73              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665334               | 660000                | 665666             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3792.51              | 3840                  | 3954.99            |                    |          |  |
| 50                     | QPSK            | 1       | 1         | 13.66                | 13.71                 | 13.78              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 665000               | 660000                | 664000             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3792                 | 3840                  | 3960               |                    |          |  |
| 40                     | QPSK            | 1       | 1         | 13.79                | 13.81                 | 13.75              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 667968               | 660000                | 664532             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3715.02              | 3840                  | 3964.98            |                    |          |  |
| 30                     | QPSK            | 1       | 1         | 13.72                | 13.74                 | 13.74              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 667334               | 660000                | 664668             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3710.01              | 3840                  | 3969.99            |                    |          |  |
| 20                     | QPSK            | 1       | 1         | 13.75                | 13.75                 | 13.70              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 667334               | 660000                | 664332             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3707.52              | 3840                  | 3972.48            |                    |          |  |
| 15                     | QPSK            | 1       | 1         | 13.72                | 13.70                 | 13.74              | 15.5               | 0.0      |  |
| Channel                |                 |         |           | 667000               | 660000                | 666000             | Turn-up time (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3705                 | 3840                  | 3972               |                    |          |  |
| 10                     | QPSK            | 1       | 1         | 13.74                | 13.80                 | 13.73              | 15.5               | 0.0      |  |



| Part27Q_n78_Ant 4 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | PI2 BPSK   | 1       | 1         |                       | 16.20                    |                        |                     | 17.5                | 0.0 |
| 100               | PI2 BPSK   | 1       | 137       |                       | 16.17                    |                        |                     |                     |     |
| 100               | PI2 BPSK   | 1       | 271       |                       | 16.26                    |                        |                     |                     |     |
| 100               | PI2 BPSK   | 135     | 0         |                       | 16.32                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 135     | 69        |                       | 16.24                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 135     | 138       |                       | 16.26                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 270     | 0         |                       | 16.25                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 1       | 1         |                       | 16.35                    |                        |                     | 17.5                | 0.0 |
| 100               | QPSK       | 1       | 137       |                       | 16.16                    |                        |                     |                     |     |
| 100               | QPSK       | 1       | 271       |                       | 16.26                    |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         |                       | 16.30                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 135     | 69        |                       | 16.33                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 135     | 138       |                       | 16.27                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 270     | 0         |                       | 16.29                    |                        | 17.5                | 0.0                 |     |
| 100               | 16QAM      | 1       | 1         |                       | 16.27                    |                        | 17.5                | 0.0                 |     |
| 100               | 64QAM      | 1       | 1         |                       | 16.29                    |                        | 17.5                | 0.0                 |     |
| 100               | 256QAM     | 1       | 1         |                       | 16.21                    |                        | 17.5                | 0.0                 |     |
| Channel           |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 90                | QPSK       | 1       | 1         |                       | 16.20                    | 16.15                  | 16.19               | 17.5                | 0.0 |
| Channel           |            |         |           | 632668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 80                | QPSK       | 1       | 1         |                       | 16.19                    | 16.26                  | 16.23               | 17.5                | 0.0 |
| Channel           |            |         |           | 632334                |                          | 633000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 70                | QPSK       | 1       | 1         |                       | 16.27                    | 16.21                  | 16.26               | 17.5                | 0.0 |
| Channel           |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 60                | QPSK       | 1       | 1         |                       | 16.16                    | 16.21                  | 16.20               | 17.5                | 0.0 |
| Channel           |            |         |           | 631668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 50                | QPSK       | 1       | 1         |                       | 16.20                    | 16.20                  | 16.19               | 17.5                | 0.0 |
| Channel           |            |         |           | 631334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 40                | QPSK       | 1       | 1         |                       | 16.16                    | 16.23                  | 16.15               | 17.5                | 0.0 |
| Channel           |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 30                | QPSK       | 1       | 1         |                       | 16.17                    | 16.20                  | 16.19               | 17.5                | 0.0 |
| Channel           |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 20                | QPSK       | 1       | 1         |                       | 16.15                    | 16.15                  | 16.21               | 17.5                | 0.0 |
| Channel           |            |         |           | 630300                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 15                | QPSK       | 1       | 1         |                       | 16.17                    | 16.24                  | 16.21               | 17.5                | 0.0 |
| Channel           |            |         |           | 630334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 10                | QPSK       | 1       | 1         |                       | 16.27                    | 16.22                  | 16.26               | 17.5                | 0.0 |

| Part27O_n78_Ant 4 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 633000                |                          | 3750                   |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | PI2 BPSK   | 1       | 1         |                       | 16.30                    |                        |                     | 17.5                | 0.0 |
| 100               | PI2 BPSK   | 1       | 137       |                       | 16.22                    |                        |                     |                     |     |
| 100               | PI2 BPSK   | 1       | 271       |                       | 16.27                    |                        |                     |                     |     |
| 100               | PI2 BPSK   | 135     | 0         |                       | 16.26                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 135     | 69        |                       | 16.16                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 135     | 138       |                       | 16.10                    |                        | 17.5                | 0.0                 |     |
| 100               | PI2 BPSK   | 270     | 0         |                       | 16.15                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 1       | 1         |                       | 16.33                    |                        |                     | 17.5                | 0.0 |
| 100               | QPSK       | 1       | 137       |                       | 16.18                    |                        |                     |                     |     |
| 100               | QPSK       | 1       | 271       |                       | 16.23                    |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         |                       | 16.22                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 135     | 69        |                       | 16.25                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 135     | 138       |                       | 16.23                    |                        | 17.5                | 0.0                 |     |
| 100               | QPSK       | 270     | 0         |                       | 16.18                    |                        | 17.5                | 0.0                 |     |
| 100               | 16QAM      | 1       | 1         |                       | 16.26                    |                        | 17.5                | 0.0                 |     |
| 100               | 64QAM      | 1       | 1         |                       | 16.25                    |                        | 17.5                | 0.0                 |     |
| 100               | 256QAM     | 1       | 1         |                       | 16.17                    |                        | 17.5                | 0.0                 |     |
| Channel           |            |         |           | 646668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 90                | QPSK       | 1       | 1         |                       | 16.25                    | 16.19                  | 16.21               | 17.5                | 0.0 |
| Channel           |            |         |           | 646334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 80                | QPSK       | 1       | 1         |                       | 16.19                    | 16.25                  | 16.12               | 17.5                | 0.0 |
| Channel           |            |         |           | 645990                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 70                | QPSK       | 1       | 1         |                       | 16.15                    | 16.15                  | 16.15               | 17.5                | 0.0 |
| Channel           |            |         |           | 644668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 60                | QPSK       | 1       | 1         |                       | 16.23                    | 16.11                  | 16.19               | 17.5                | 0.0 |
| Channel           |            |         |           | 644334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 50                | QPSK       | 1       | 1         |                       | 16.11                    | 16.19                  | 16.22               | 17.5                | 0.0 |
| Channel           |            |         |           | 644000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 40                | QPSK       | 1       | 1         |                       | 16.19                    | 16.15                  | 16.16               | 17.5                | 0.0 |
| Channel           |            |         |           | 643668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 30                | QPSK       | 1       | 1         |                       | 16.13                    | 16.11                  | 16.13               | 17.5                | 0.0 |
| Channel           |            |         |           | 647334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 20                | QPSK       | 1       | 1         |                       | 16.24                    | 16.20                  | 16.20               | 17.5                | 0.0 |
| Channel           |            |         |           | 647000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 15                | QPSK       | 1       | 1         |                       | 16.14                    | 16.25                  | 16.13               | 17.5                | 0.0 |
| Channel           |            |         |           | 647000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 10                | QPSK       | 1       | 1         |                       | 16.19                    | 16.20                  | 16.12               | 17.5                | 0.0 |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 16.20                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 16.17                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 16.26                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 16.32                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 16.24                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 16.26                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 16.25                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 16.30                    |                        | 17.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                       | 16.16                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                       | 16.26                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 16.30                    |                        | 17.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 16.33                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 16.27                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 16.29                    |                        | 17.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 16.27                    |                        | 17.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 16.26                    |                        | 17.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 16.21                    |                        | 17.5                | 0.0      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 16.29                 | 16.16                    | 16.19                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 16.19                 | 16.26                    | 16.23                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 632334                | 633332                   | 634366                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 16.27                 | 16.21                    | 16.26                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dB)                | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 16.16                 | 16.21                    | 16.20                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 16.20                 | 16.20                    | 16.16                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 16.16                 | 16.23                    | 16.15                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dB)                | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 16.17                 | 16.20                    | 16.19                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 16.15                 | 16.15                    | 16.21                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 630334                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 16.17                 | 16.24                    | 16.21                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 630000                | 633332                   | 636700                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 16.27                 | 16.22                    | 16.26                  | 17.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 16.30                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 16.22                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 16.27                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 16.26                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 16.16                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 16.10                    |                        | 17.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 16.15                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 16.33                    |                        | 17.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                       | 16.18                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                       | 16.23                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 16.22                    |                        | 17.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 16.26                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 16.23                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 16.18                    |                        | 17.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 16.26                    |                        | 17.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 16.25                    |                        | 17.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 16.17                    |                        | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dB)                | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 16.25                 | 16.16                    | 16.21                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 16.19                 | 16.25                    | 16.12                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dB)                | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 16.15                 | 16.15                    | 16.15                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3750                     | 3763.98                | (dB)                | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 16.23                 | 16.11                    | 16.19                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 16.11                 | 16.19                    | 16.22                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dB)                | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 16.19                 | 16.15                    | 16.16                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dB)                | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 16.13                 | 16.11                    | 16.13                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.98                | (dB)                | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 16.24                 | 16.25                    | 16.20                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dB)                | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 16.14                 | 16.26                    | 16.13                  | 17.5                | 0.0      |  |
| Channel                |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 16.19                 | 16.20                    | 16.12                  | 17.5                | 0.0      |  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 20.72                    |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 20.83                    |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 20.80                    |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 20.82                    |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 20.87                    |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 20.79                    |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 20.77                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 20.85                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 137       |                       | 20.79                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       |                       | 20.73                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 20.80                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 20.85                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 20.70                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 20.83                    |                        | 22.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 20.81                    |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.85                    |                        | 22.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.25                    |                        | 20.5                | 1.5      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3486                  | 3499.98                  | 3504.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 20.82                 | 20.80                    | 20.79                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3489.98               | 3499.98                  | 3509.98                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 20.77                 | 20.80                    | 20.87                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 20.80                 | 20.79                    | 20.83                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 20.81                 | 20.84                    | 20.82                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.00               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 20.88                 | 20.84                    | 20.85                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 20.75                 | 20.83                    | 20.76                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3524.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 20.85                 | 20.85                    | 20.86                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 20.79                 | 20.86                    | 20.85                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630332                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.03               | 3499.98                  | 3544.98                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 20.76                 | 20.84                    | 20.87                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3450.03               | 3499.98                  | 3549.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 20.80                 | 20.86                    | 20.85                  | 22.0                | 0.0      |  |

| Part270_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 21.12                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 21.06                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 21.14                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 21.16                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 21.14                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 21.11                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 21.15                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 21.20                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 21.19                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 21.17                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 21.08                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 21.13                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 21.10                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 21.07                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 21.06                    |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.93                    |                        | 22.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.46                    |                        | 20.5                | 1.5      |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3750                     | 3757.98                | (dBm)               | (dB)     |  |
| 90                | QPSK       | 1       | 1         | 21.08                 | 21.09                    | 21.09                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                | QPSK       | 1       | 1         | 21.11                 | 21.12                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                | QPSK       | 1       | 1         | 21.14                 | 21.19                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                | QPSK       | 1       | 1         | 21.08                 | 21.15                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                | QPSK       | 1       | 1         | 21.15                 | 21.10                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                | QPSK       | 1       | 1         | 21.07                 | 21.08                    | 21.18                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                | QPSK       | 1       | 1         | 21.16                 | 21.16                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3713.01               | 3750                     | 3786.99                | (dBm)               | (dB)     |  |
| 20                | QPSK       | 1       | 1         | 21.15                 | 21.15                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                | QPSK       | 1       | 1         | 21.06                 | 21.16                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 645000                | 650000                   | 655000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                | QPSK       | 1       | 1         | 21.14                 | 21.08                    | 21.09                  | 22.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.71                 |                          |                        | 24.0                |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.72                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.67                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.69                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.74                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.18                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.06                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 22.80                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.77                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 22.22                 |                          |                        |                     |          |  |
| 100                    | 22.77      | 135     | 0         | 22.72                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 22.77                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 21.40                 |                          |                        | 23.5                | 0.5      |  |
| 100                    | QPSK       | 270     | 0         | 22.21                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 22.78                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.26                 |                          |                        |                     | 22.5     |  |
| 100                    | 256QAM     | 1       | 1         | 19.25                 |                          |                        | 20.5                | 3.5      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                |          |  |
| 80                     | QPSK       | 1       | 1         | 22.77                 | 22.74                    | 22.79                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |  |
| 80                     | QPSK       | 1       | 1         | 22.68                 | 22.69                    | 22.70                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |  |
| 70                     | QPSK       | 1       | 1         | 22.75                 | 22.76                    | 22.67                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dB)                |          |  |
| 60                     | QPSK       | 1       | 1         | 22.71                 | 22.65                    | 22.75                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |
| 50                     | QPSK       | 1       | 1         | 22.77                 | 22.68                    | 22.70                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |  |
| 40                     | QPSK       | 1       | 1         | 22.69                 | 22.66                    | 22.73                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dB)                |          |  |
| 30                     | QPSK       | 1       | 1         | 22.76                 | 22.65                    | 22.72                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |
| 20                     | QPSK       | 1       | 1         | 22.75                 | 22.68                    | 22.72                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630334                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |  |
| 15                     | QPSK       | 1       | 1         | 22.68                 | 22.70                    | 22.73                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630000                | 633332                   | 636700                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |  |
| 10                     | QPSK       | 1       | 1         | 22.73                 | 22.73                    | 22.75                  | 24.0                | 0.0      |  |

| Part27O_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.94                 |                          |                        | 24.0                |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 23.04                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.90                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.96                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 23.00                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 23.04                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.94                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 23.05                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.96                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 22.92                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 22.98                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 22.97                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 22.44                 |                          |                        | 23.5                | 0.5      |  |
| 100                    | QPSK       | 270     | 0         | 22.54                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 22.85                 |                          |                        | 24.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.23                 |                          |                        |                     | 22.5     |  |
| 100                    | 256QAM     | 1       | 1         | 19.26                 |                          |                        | 20.5                | 3.5      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3757.98                | (dB)                |          |  |
| 90                     | QPSK       | 1       | 1         | 22.91                 | 23.00                    | 22.95                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                |          |  |
| 80                     | QPSK       | 1       | 1         | 22.91                 | 22.83                    | 22.93                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3738.02               | 3750                     | 3761.98                | (dB)                |          |  |
| 70                     | QPSK       | 1       | 1         | 22.95                 | 22.96                    | 22.96                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3736.02               | 3750                     | 3763.98                | (dB)                |          |  |
| 60                     | QPSK       | 1       | 1         | 23.04                 | 22.97                    | 22.97                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                |          |  |
| 50                     | QPSK       | 1       | 1         | 22.99                 | 23.00                    | 22.93                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3760                   | (dB)                |          |  |
| 40                     | QPSK       | 1       | 1         | 22.96                 | 22.95                    | 22.99                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dB)                |          |  |
| 30                     | QPSK       | 1       | 1         | 22.90                 | 22.90                    | 22.90                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3713.01               | 3750                     | 3786.98                | (dB)                |          |  |
| 20                     | QPSK       | 1       | 1         | 23.00                 | 22.98                    | 22.91                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dB)                |          |  |
| 15                     | QPSK       | 1       | 1         | 22.99                 | 23.01                    | 22.96                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                |          |  |
| 10                     | QPSK       | 1       | 1         | 23.04                 | 22.99                    | 22.95                  | 24.0                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 23.11                 |                          |                        | 24.0                |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 22.88                 |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 271       | 22.98                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 0         | 23.03                 |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 69        | 22.94                 |                          |                        | 24.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 23.02                 |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 270     | 0         | 22.93                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 23.11                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       | 23.01                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 23.05                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 22.98                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 23.01                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       | 22.99                 |                          |                        | 24.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 22.89                 |                          |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 23.09                 |                          |                        | 24.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 22.96                 |                          |                        |                     | 24.0     |  |
| 100                | 256QAM     | 1       | 1         | 22.80                 |                          |                        | 23.5                | 0.5      |  |
| Channel            |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3499.98               | 3499.98                  | 3499.98                | 24.0                | 0.0      |  |
| 90                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.01                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 630668                | 633532                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3490.02               | 3499.98                  | 3510.00                | 24.0                | 0.0      |  |
| 80                 | QPSK       | 1       | 1         | 23.04                 | 23.04                    | 23.06                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 632338                | 633332                   | 634338                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 24.0                | 0.0      |  |
| 70                 | QPSK       | 1       | 1         | 23.02                 | 23.01                    | 22.98                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3480                  | 3499.98                  | 3519.99                | 24.0                | 0.0      |  |
| 60                 | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.05                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3475.02               | 3499.98                  | 3508                   | 24.0                | 0.0      |  |
| 50                 | QPSK       | 1       | 1         | 23.08                 | 23.01                    | 22.96                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 631334                | 633532                   | 635532                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3470.01               | 3499.98                  | 3505.98                | 24.0                | 0.0      |  |
| 40                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.02                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 631000                | 633532                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3465                  | 3499.98                  | 3534.99                | 24.0                | 0.0      |  |
| 30                 | QPSK       | 1       | 1         | 22.98                 | 23.05                    | 22.96                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 630666                | 633532                   | 637000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3460.02               | 3499.98                  | 3540                   | 24.0                | 0.0      |  |
| 20                 | QPSK       | 1       | 1         | 22.99                 | 23.07                    | 23.03                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 630330                | 633532                   | 638000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3457.5                | 3499.98                  | 3552.5                 | 24.0                | 0.0      |  |
| 15                 | QPSK       | 1       | 1         | 23.02                 | 23.03                    | 23.08                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 630334                | 633532                   | 638332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3456.81               | 3499.98                  | 3544.80                | 24.0                | 0.0      |  |
| 10                 | QPSK       | 1       | 1         | 23.04                 | 22.98                    | 23.07                  | Tune-up limit (dBm) | MPR (dB) |  |

| Part270_n78_Ant 10 |            |         |           |                       |                        |                        |                     |          |     |  |
|--------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|-----|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mch. Ch. / Freq. | Power Hch. Ch. / Freq. | Tune-up limit (dBm) | MPR (db) |     |  |
| Channel            |            |         |           | 650000                |                        |                        |                     |          |     |  |
| Frequency (MHz)    |            |         |           | 3750                  |                        |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 1       | 1         |                       | 22.93                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 1       | 137       |                       | 23.00                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 1       | 271       |                       | 22.88                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 135     | 0         |                       | 22.91                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 135     | 69        |                       | 23.00                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 135     | 138       |                       | 22.95                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 270     | 0         |                       | 22.95                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 1       | 1         |                       | 23.01                  |                        |                     |          |     |  |
| 100                | QPSK       | 1       | 137       |                       | 22.97                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 1       | 271       |                       | 22.93                  |                        |                     |          |     |  |
| 100                | QPSK       | 135     | 0         |                       | 22.91                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 135     | 69        |                       | 22.97                  |                        |                     |          |     |  |
| 100                | QPSK       | 135     | 138       |                       | 22.95                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 270     | 0         |                       | 22.94                  |                        |                     |          |     |  |
| 100                | 16QAM      | 1       | 1         |                       | 22.96                  |                        |                     | 24.0     | 0.0 |  |
| 100                | 64QAM      | 1       | 1         |                       | 22.88                  |                        |                     |          |     |  |
| 100                | 256QAM     | 1       | 1         |                       | 22.54                  |                        | 23.5                | 0.5      |     |  |
| Channel            |            |         |           | 649668                | 650000                 | 650332                 | Tune-up limit       |          |     |  |
| Frequency (MHz)    |            |         |           | 3745.02               | 3750                   | 3754.98                | (dBm)               | MPR (db) |     |  |
| 90                 | QPSK       | 1       | 1         | 22.80                 | 22.78                  | 22.81                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648334                | 650000                 | 650668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3750                   | 3759.99                | (dBm)               |          |     |  |
| 80                 | QPSK       | 1       | 1         | 22.82                 | 22.76                  | 22.79                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648000                | 650000                 | 651000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                   | 3765                   | (dBm)               |          |     |  |
| 70                 | QPSK       | 1       | 1         | 22.80                 | 22.76                  | 22.87                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648668                | 650000                 | 651332                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3740.02               | 3750                   | 3749.98                | (dBm)               |          |     |  |
| 60                 | QPSK       | 1       | 1         | 22.80                 | 22.79                  | 22.86                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648334                | 650000                 | 651668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3725.01               | 3750                   | 3774.99                | (dBm)               |          |     |  |
| 50                 | QPSK       | 1       | 1         | 22.82                 | 22.82                  | 22.84                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648000                | 650000                 | 652000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                   | 3780                   | (dBm)               |          |     |  |
| 40                 | QPSK       | 1       | 1         | 22.83                 | 22.80                  | 22.84                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647668                | 650000                 | 652332                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                   | 3784.98                | (dBm)               |          |     |  |
| 30                 | QPSK       | 1       | 1         | 22.84                 | 22.80                  | 22.82                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647334                | 650000                 | 652668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3750                   | 3789.99                | (dBm)               |          |     |  |
| 20                 | QPSK       | 1       | 1         | 22.78                 | 22.79                  | 22.85                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647168                | 650000                 | 652832                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                   | 3792.48                | (dBm)               |          |     |  |
| 15                 | QPSK       | 1       | 1         | 22.82                 | 22.80                  | 22.81                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647000                | 650000                 | 653000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                   | 3795                   | (dBm)               |          |     |  |
| 10                 | QPSK       | 1       | 1         | 22.80                 | 22.79                  | 22.82                  | 24.0                | 0.0      |     |  |



| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 25.97                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 25.79                 |                          |                        |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 25.88                 |                          |                        |                     |          |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 25.94                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 25.78                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.88                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.76                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 25.03                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 25.97                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 25.94                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 25.97                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 25.98                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 25.79                 |                          |                        | 28.5                | 0.5      |  |
| 100                     | QPSK       | 270     | 0         | 25.96                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 25.83                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 24.70                 |                          |                        | 25.5                | 1.5      |  |
| 100                     | 256QAM     | 1       | 1         | 22.60                 |                          |                        | 23.5                | 3.5      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |  |
| 90                      | QPSK       | 1       | 1         | 25.96                 | 25.97                    | 26.00                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 25.97                 | 25.89                    | 26.00                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                      | QPSK       | 1       | 1         | 25.88                 | 25.89                    | 26.02                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3490                  | 3499.98                  | 3519.98                | (dBm)               | (dB)     |  |
| 60                      | QPSK       | 1       | 1         | 26.00                 | 25.89                    | 25.92                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                      | QPSK       | 1       | 1         | 25.94                 | 26.02                    | 26.02                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |
| 40                      | QPSK       | 1       | 1         | 26.00                 | 26.00                    | 26.00                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 30                      | QPSK       | 1       | 1         | 25.97                 | 25.91                    | 26.02                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                      | QPSK       | 1       | 1         | 25.97                 | 25.90                    | 25.92                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 630000                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |
| 15                      | QPSK       | 1       | 1         | 25.93                 | 25.98                    | 25.88                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 630334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                      | QPSK       | 1       | 1         | 25.95                 | 25.92                    | 25.98                  | 27.0                | 0.0      |  |

| Part27O_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 25.78                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 25.58                 |                          |                        |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 25.57                 |                          |                        |                     |          |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 25.66                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 25.54                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.58                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.52                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 25.85                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 25.79                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 25.81                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 25.71                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 25.74                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 25.70                 |                          |                        | 28.5                | 0.5      |  |
| 100                     | QPSK       | 270     | 0         | 25.72                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 25.57                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 24.40                 |                          |                        | 25.5                | 1.5      |  |
| 100                     | 256QAM     | 1       | 1         | 22.37                 |                          |                        | 23.5                | 3.5      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3742.02               | 3750                     | 3745.98                | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 25.77                 | 25.88                    | 25.84                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 25.80                 | 25.86                    | 25.87                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.85                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3742.02               | 3750                     | 3761.98                | (dBm)               | (dB)     |  |
| 60                      | QPSK       | 1       | 1         | 25.81                 | 25.80                    | 25.88                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3745.01               | 3750                     | 3774.98                | (dBm)               | (dB)     |  |
| 50                      | QPSK       | 1       | 1         | 25.77                 | 25.79                    | 25.85                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                      | QPSK       | 1       | 1         | 25.74                 | 25.85                    | 25.84                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                      | QPSK       | 1       | 1         | 25.81                 | 25.85                    | 25.74                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3718.01               | 3750                     | 3789.98                | (dBm)               | (dB)     |  |
| 20                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.78                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647000                | 650000                   | 652932                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                      | QPSK       | 1       | 1         | 25.87                 | 25.81                    | 25.79                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647000                | 650000                   | 653100                 | Tune-up limit (dBm) | MPR      |  |
|                         |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.79                  | 27.0                | 0.0      |  |

| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 14.06                 |                          |                        | 15.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 14.01                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 14.07                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 14.06                 |                          |                        | 15.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 14.12                 |                          |                        | 15.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 14.01                 |                          |                        | 15.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 14.10                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 14.15                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 14.07                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       | 14.04                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 14.06                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 14.12                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       | 14.01                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 14.11                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 14.17                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 14.08                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 14.06                 |                          |                        | 15.5                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 13.96                 | 14.09                    | 14.00                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 13.97                 | 13.99                    | 14.02                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 14.05                 | 14.06                    | 13.30                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 13.97                 | 14.08                    | 13.98                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 14.06                 | 13.97                    | 13.98                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 14.00                 | 14.07                    | 14.03                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 13.97                 | 13.99                    | 13.96                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630334                | 633332                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 13.96                 | 14.06                    | 13.97                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 13.99                 | 13.96                    | 14.06                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 629332                | 633332                   | 637000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | QPSK       | 1       | 1         | 14.01                 | 14.01                    | 14.08                  | 15.5                | 0.0      |  |



| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 14.40                    |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 14.46                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 14.39                    |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 14.41                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 14.47                    |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 14.45                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 14.39                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 14.60                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 14.48                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 14.48                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 14.55                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 14.57                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 14.48                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 14.51                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 14.48                    |                        | 15.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 14.43                    |                        |                     |          |  |
| 100               | 256QAM     | 1       | 1         |                       | 14.39                    |                        | 15.5                | 0.0      |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               |          |  |
| 90                | QPSK       | 1       | 1         | 14.40                 | 14.37                    | 14.40                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               |          |  |
| 80                | QPSK       | 1       | 1         | 14.42                 | 14.43                    | 14.37                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               |          |  |
| 70                | QPSK       | 1       | 1         | 14.38                 | 14.44                    | 14.44                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               |          |  |
| 60                | QPSK       | 1       | 1         | 14.41                 | 14.47                    | 14.47                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               |          |  |
| 50                | QPSK       | 1       | 1         | 14.50                 | 14.45                    | 14.37                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               |          |  |
| 40                | QPSK       | 1       | 1         | 14.37                 | 14.42                    | 14.43                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               |          |  |
| 30                | QPSK       | 1       | 1         | 14.50                 | 14.41                    | 14.41                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               |          |  |
| 20                | QPSK       | 1       | 1         | 14.45                 | 14.42                    | 14.50                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652632                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               |          |  |
| 15                | QPSK       | 1       | 1         | 14.41                 | 14.50                    | 14.44                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       |          |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               |          |  |
| 10                | QPSK       | 1       | 1         | 14.49                 | 14.39                    | 14.38                  | 15.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | Frequency (MHz)       |                          | 633332                 | 3499.98             | 15.5     | 0.0 |
|                        |            |         |           |                       |                          | 633332                 |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 14.06                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 14.01                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 14.07                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 14.06                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 14.12                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 14.01                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 14.06                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 1         |                       | 14.10                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 137       |                       | 14.07                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 271       |                       | 14.04                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 14.09                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 135     | 69        |                       | 14.15                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 138       |                       | 14.08                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 270     | 0         |                       | 14.11                    |                        |                     |          |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.17                    |                        | 15.5                | 0.0      |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.06                    |                        |                     |          |     |
| 100                    | 256QAM     | 1       | 1         |                       | 14.08                    |                        | 15.5                | 0.0      |     |
| Channel                |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3695                  | 3499.98                  | 3704.98                | (dB)                |          |     |
| 90                     | QPSK       | 1       | 1         | 13.98                 | 14.09                    | 14.00                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dB)                |          |     |
| 80                     | QPSK       | 1       | 1         | 13.97                 | 13.99                    | 14.02                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |     |
| 70                     | QPSK       | 1       | 1         | 14.08                 | 14.06                    | 13.98                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 13.97                 | 14.08                    | 14.10                  | 15.5                | 0.0      |     |
| 60                     | QPSK       | 1       | 1         |                       |                          |                        |                     |          |     |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |     |
| 50                     | QPSK       | 1       | 1         | 14.09                 | 13.97                    | 13.98                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |     |
| 40                     | QPSK       | 1       | 1         | 14.00                 | 14.07                    | 14.03                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3465                  | 3499.98                  | 3524.98                | (dB)                |          |     |
| 30                     | QPSK       | 1       | 1         | 13.97                 | 13.99                    | 13.98                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |     |
| 20                     | QPSK       | 1       | 1         | 13.98                 | 14.08                    | 13.97                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 630000                | 633332                   | 636668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |     |
| 15                     | QPSK       | 1       | 1         | 13.99                 | 13.98                    | 14.06                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 630334                | 633332                   | 637332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |     |
| 10                     | QPSK       | 1       | 1         | 14.01                 | 14.01                    | 14.08                  | 15.5                | 0.0      |     |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | Frequency (MHz)       |                          | 650000                 | 3750                | 15.5     | 0.0 |
|                        |            |         |           |                       |                          | 650000                 |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 14.40                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 14.46                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 14.39                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 14.41                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 14.47                    |                        | 15.5                | 0.0      |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 14.45                    |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 14.39                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 1         |                       | 14.00                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 137       |                       | 14.48                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 271       |                       | 14.48                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 14.50                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 135     | 69        |                       | 14.57                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 138       |                       | 14.48                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 270     | 0         |                       | 14.51                    |                        |                     |          |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.48                    |                        | 15.5                | 0.0      |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.43                    |                        |                     |          |     |
| 100                    | 256QAM     | 1       | 1         |                       | 14.36                    |                        | 15.5                | 0.0      |     |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3745.02               | 3750                     | 3754.98                | (dB)                |          |     |
| 90                     | QPSK       | 1       | 1         | 14.40                 | 14.37                    | 14.40                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                |          |     |
| 80                     | QPSK       | 1       | 1         | 14.42                 | 14.43                    | 14.37                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3735                  | 3750                     | 3765                   | (dB)                |          |     |
| 70                     | QPSK       | 1       | 1         | 14.38                 | 14.44                    | 14.44                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 14.41                 | 14.47                    | 14.47                  | 15.5                | 0.0      |     |
| 60                     | QPSK       | 1       | 1         |                       |                          |                        |                     |          |     |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                |          |     |
| 50                     | QPSK       | 1       | 1         | 14.50                 | 14.48                    | 14.57                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3720                  | 3750                     | 3780                   | (dB)                |          |     |
| 40                     | QPSK       | 1       | 1         | 14.37                 | 14.42                    | 14.43                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3715.00               | 3750                     | 3784.98                | (dB)                |          |     |
| 30                     | QPSK       | 1       | 1         | 14.50                 | 14.41                    | 14.41                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3710.01               | 3750                     | 3789.98                | (dB)                |          |     |
| 20                     | QPSK       | 1       | 1         | 14.45                 | 14.42                    | 14.50                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647000                | 650000                   | 652832                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dB)                |          |     |
| 15                     | QPSK       | 1       | 1         | 14.41                 | 14.50                    | 14.44                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 646334                | 650000                   | 653000                 | Tune-up limit       | MPR      |     |
|                        |            |         |           | Frequency (MHz)       |                          |                        | (dBm)               |          |     |
|                        |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                |          |     |
| 10                     | QPSK       | 1       | 1         | 14.48                 | 14.36                    | 14.38                  | 15.5                | 0.0      |     |



Reduced Power Mode for DSI3

| n2_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>372000 | Power Middle<br>Ch. 1 Freq.<br>376000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1860                                  | 1900                                | 18.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 17.13                              | 17.22                                 | 17.09                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 53        | 17.03                              | 17.20                                 | 17.16                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 17.17                              | 17.27                                 | 17.09                               | 18.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 0         | 17.11                              | 17.20                                 | 17.09                               | 18.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 17.15                              | 17.22                                 | 17.10                               | 18.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 17.16                              | 17.23                                 | 17.16                               | 18.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 17.12                              | 17.21                                 | 17.15                               | 18.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 17.16                              | 17.34                                 | 17.17                               | 18.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 17.16                              | 17.24                                 | 17.03                               |                        |             |  |
| 20              | QPSK       | 1       | 104       | 17.12                              | 17.23                                 | 17.08                               |                        |             |  |
| 20              | QPSK       | 50      | 0         | 17.12                              | 17.21                                 | 17.10                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 17.17                              | 17.27                                 | 17.26                               | 18.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 17.13                              | 17.21                                 | 17.16                               | 18.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 17.14                              | 17.17                                 | 17.09                               | 18.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 17.14                              | 17.24                                 | 17.13                               | 18.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 17.14                              | 17.24                                 | 17.10                               | 18.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 17.02                              | 17.13                                 | 17.07                               | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1860                                  | 1902.5                              | (dBm)                  | (dB)        |  |
| 15              | QPSK       | 1       | 1         | 17.03                              | 17.15                                 | 17.15                               | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1865                               | 1860                                  | 1905                                | (dBm)                  | (dB)        |  |
| 10              | QPSK       | 1       | 1         | 17.07                              | 17.15                                 | 17.11                               | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1860                                  | 1907.5                              | (dBm)                  | (dB)        |  |
| 5               | QPSK       | 1       | 1         | 17.10                              | 17.15                                 | 17.17                               | 18.0                   | 0.0         |  |

| n2_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>372000 | Power Middle<br>Ch. 1 Freq.<br>376000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1860                                  | 1900                                | 19.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 17.89                              | 17.83                                 | 17.79                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 53        | 17.82                              | 18.02                                 | 17.83                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 17.74                              | 17.83                                 | 17.81                               | 19.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 0         | 17.93                              | 17.93                                 | 17.87                               | 19.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 17.85                              | 17.86                                 | 17.75                               | 19.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 17.90                              | 17.89                                 | 17.94                               | 19.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 17.75                              | 17.87                                 | 17.79                               | 19.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 18.06                              | 18.15                                 | 18.11                               | 19.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 17.81                              | 17.96                                 | 17.83                               |                        |             |  |
| 20              | QPSK       | 1       | 104       | 17.91                              | 17.90                                 | 17.85                               |                        |             |  |
| 20              | QPSK       | 50      | 0         | 17.87                              | 17.84                                 | 17.87                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 17.93                              | 18.09                                 | 17.96                               | 19.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 17.88                              | 17.94                                 | 17.94                               | 19.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 17.83                              | 17.97                                 | 17.96                               | 19.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 17.92                              | 17.96                                 | 17.94                               | 19.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 17.86                              | 17.85                                 | 17.86                               | 19.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 17.82                              | 17.95                                 | 17.94                               | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1867.5                             | 1860                                  | 1902.5                              | (dBm)                  | (dB)        |  |
| 15              | QPSK       | 1       | 1         | 17.87                              | 18.03                                 | 17.86                               | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1865                               | 1860                                  | 1905                                | (dBm)                  | (dB)        |  |
| 10              | QPSK       | 1       | 1         | 17.94                              | 18.07                                 | 17.90                               | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1860                                  | 1907.5                              | (dBm)                  | (dB)        |  |
| 5               | QPSK       | 1       | 1         | 17.85                              | 17.95                                 | 17.83                               | 19.0                   | 0.0         |  |

| n5_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>166800 | Power Middle<br>Ch. 1 Freq.<br>167500 | Power High<br>Ch. 1 Freq.<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                | 836.5                                 | 839                                 | 24.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.78                              | 22.82                                 | 22.80                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.86                              | 22.96                                 | 22.87                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.76                              | 22.86                                 | 22.78                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.78                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.90                              | 22.95                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.77                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.78                              | 22.88                                 | 22.83                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 22.95                              | 23.00                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 22.79                              | 22.82                                 | 22.79                               |                        |             |  |
| 20              | QPSK       | 1       | 104       | 22.82                              | 22.85                                 | 22.76                               |                        |             |  |
| 20              | QPSK       | 50      | 0         | 22.76                              | 22.85                                 | 22.76                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.86                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.87                              | 22.90                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 22.87                              | 22.92                                 | 22.87                               | 24.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.61                              | 21.65                                 | 21.55                               | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.69                              | 19.71                                 | 19.67                               | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               | (dBm)                  | (dB)        |  |
| 15              | QPSK       | 1       | 1         | 22.78                              | 22.83                                 | 22.84                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 165800                             | 167300                                | 168800                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 834                                | 836.5                                 | 841                                 | (dBm)                  | (dB)        |  |
| 10              | QPSK       | 1       | 1         | 22.83                              | 22.98                                 | 22.76                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 165300                             | 167300                                | 169300                              | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               | (dBm)                  | (dB)        |  |
| 5               | QPSK       | 1       | 1         | 22.83                              | 22.83                                 | 22.83                               | 24.0                   | 0.0         |  |

| n5_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>16680 | Power Middle<br>Ch. F. Freq.<br>16730 | Power High<br>Ch. F. Freq.<br>16780 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                | 836.5                                 | 839                                 |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.19                              | 22.21                                 | 22.07                               |                        |             |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.31                              | 22.35                                 | 22.34                               | 23.5                   | 0.0         |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.21                              | 22.25                                 | 22.26                               |                        |             |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.26                              | 22.26                                 | 22.14                               | 23.5                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.22                              | 22.17                                 | 22.18                               | 23.5                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.30                              | 22.30                                 | 22.31                               |                        |             |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.33                              | 22.23                                 | 22.29                               | 23.5                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 22.32                              | 22.45                                 | 22.33                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.08                              | 22.27                                 | 22.17                               | 23.5                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.30                              | 22.30                                 | 22.21                               |                        |             |  |
| 20              | QPSK       | 50      | 0         | 22.23                              | 22.31                                 | 22.18                               | 23.5                   | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 22.33                              | 22.38                                 | 22.24                               | 23.5                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 22.24                              | 22.35                                 | 22.14                               |                        |             |  |
| 20              | QPSK       | 100     | 0         | 22.16                              | 22.27                                 | 22.16                               | 23.5                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 22.23                              | 22.23                                 | 22.21                               | 23.5                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.40                              | 21.39                                 | 21.26                               | 22.5                   | 1.0         |  |
| 20              | 256QAM     | 1       | 1         | 19.08                              | 19.26                                 | 19.20                               | 20.5                   | 3.0         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.23                              | 22.33                                 | 22.15                               | 23.5                   | 0.0         |  |
| Channel         |            |         |           | 166800                             | 167300                                | 168800                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 820                                | 836.5                                 | 844                                 |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.25                              | 22.23                                 | 22.13                               | 23.5                   | 0.0         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 169300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.30                              | 22.27                                 | 22.15                               | 23.5                   | 0.0         |  |

| n7_Ant 9        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>50400 | Power Middle<br>Ch. F. Freq.<br>50700 | Power High<br>Ch. F. Freq.<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 2520                               | 2535                                  | 2550                                |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 19.23                              | 19.52                                 | 19.53                               |                        |             |  |
| 40              | PI2 BPSK   | 1       | 108       | 19.54                              | 19.61                                 | 19.55                               | 20.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 214       | 19.52                              | 19.60                                 | 19.60                               |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 19.37                              | 19.56                                 | 19.44                               | 20.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 54        | 19.34                              | 19.52                                 | 19.48                               | 20.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 19.45                              | 19.71                                 | 19.61                               |                        |             |  |
| 40              | PI2 BPSK   | 216     | 0         | 19.54                              | 19.67                                 | 19.64                               | 20.5                   | 0.0         |  |
| 40              | QPSK       | 1       | 1         | 19.67                              | 19.78                                 | 19.68                               |                        |             |  |
| 40              | QPSK       | 1       | 108       | 19.31                              | 19.48                                 | 19.38                               | 20.5                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 19.60                              | 19.69                                 | 19.68                               |                        |             |  |
| 40              | QPSK       | 108     | 0         | 19.55                              | 19.55                                 | 19.56                               | 20.5                   | 0.0         |  |
| 40              | QPSK       | 108     | 54        | 19.61                              | 19.70                                 | 19.63                               | 20.5                   | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 19.56                              | 19.65                                 | 19.62                               |                        |             |  |
| 40              | QPSK       | 216     | 0         | 19.60                              | 19.74                                 | 19.63                               | 20.5                   | 0.0         |  |
| 40              | 16QAM      | 1       | 1         | 19.56                              | 19.73                                 | 19.66                               | 20.5                   | 0.0         |  |
| 40              | 64QAM      | 1       | 1         | 19.39                              | 19.47                                 | 19.40                               | 20.5                   | 0.0         |  |
| 40              | 256QAM     | 1       | 1         | 19.56                              | 19.65                                 | 19.66                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 503000                             | 507000                                | 511000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2515                               | 2535                                  | 2555                                |                        |             |  |
| 30              | QPSK       | 1       | 1         | 19.50                              | 19.68                                 | 19.57                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 502000                             | 507000                                | 511900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2512.5                             | 2535                                  | 2557.5                              |                        |             |  |
| 25              | QPSK       | 1       | 1         | 19.55                              | 19.60                                 | 19.57                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 502000                             | 507000                                | 512000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2510                               | 2535                                  | 2550                                |                        |             |  |
| 20              | QPSK       | 1       | 1         | 19.53                              | 19.65                                 | 19.56                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 501500                             | 507000                                | 512100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                             | 2535                                  | 2562.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 19.51                              | 19.62                                 | 19.54                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 501000                             | 507000                                | 513000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2504                               | 2535                                  | 2565                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 19.50                              | 19.68                                 | 19.62                               | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 500500                             | 507000                                | 513500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                             | 2535                                  | 2567.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 19.60                              | 19.59                                 | 19.49                               | 20.5                   | 0.0         |  |

| n7_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>50400 | Power Middle<br>Ch. F. Freq.<br>50700 | Power High<br>Ch. F. Freq.<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 2520                               | 2535                                  | 2550                                |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 15.95                              | 16.01                                 | 15.89                               |                        |             |  |
| 40              | PI2 BPSK   | 1       | 108       | 16.00                              | 16.05                                 | 16.04                               | 17.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 214       | 15.96                              | 16.15                                 | 16.14                               |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 15.88                              | 16.03                                 | 15.89                               | 17.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 54        | 15.86                              | 16.04                                 | 15.96                               | 17.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 16.03                              | 16.10                                 | 16.04                               |                        |             |  |
| 40              | PI2 BPSK   | 216     | 0         | 15.98                              | 16.06                                 | 16.04                               | 17.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 1         | 16.02                              | 16.18                                 | 16.05                               |                        |             |  |
| 40              | QPSK       | 1       | 108       | 15.96                              | 16.04                                 | 16.03                               | 17.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 16.00                              | 16.02                                 | 16.05                               |                        |             |  |
| 40              | QPSK       | 108     | 0         | 16.04                              | 16.13                                 | 16.09                               | 17.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 54        | 16.07                              | 16.16                                 | 16.11                               | 17.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 16.02                              | 16.09                                 | 16.04                               |                        |             |  |
| 40              | QPSK       | 216     | 0         | 16.04                              | 16.14                                 | 16.07                               | 17.0                   | 0.0         |  |
| 40              | 16QAM      | 1       | 1         | 15.98                              | 16.14                                 | 16.08                               | 17.0                   | 0.0         |  |
| 40              | 64QAM      | 1       | 1         | 15.98                              | 16.09                                 | 16.02                               | 17.0                   | 0.0         |  |
| 40              | 256QAM     | 1       | 1         | 16.01                              | 16.05                                 | 16.16                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 503000                             | 507000                                | 511000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2515                               | 2535                                  | 2555                                |                        |             |  |
| 30              | QPSK       | 1       | 1         | 16.02                              | 16.01                                 | 15.96                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                             | 507000                                | 511900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2512.5                             | 2535                                  | 2557.5                              |                        |             |  |
| 25              | QPSK       | 1       | 1         | 15.98                              | 16.06                                 | 15.99                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                             | 507000                                | 512000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2510                               | 2535                                  | 2550                                |                        |             |  |
| 20              | QPSK       | 1       | 1         | 15.93                              | 16.01                                 | 16.07                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 501500                             | 507000                                | 512100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                             | 2535                                  | 2562.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 15.99                              | 16.14                                 | 16.00                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                             | 507000                                | 513000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2504                               | 2535                                  | 2565                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 16.00                              | 16.01                                 | 16.00                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                             | 507000                                | 513500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                             | 2535                                  | 2567.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 15.90                              | 16.03                                 | 16.01                               | 17.0                   | 0.0         |  |

| n12_Ant 0       |            |         |           |                                    |                                    |                                     |                        |             |  |  |
|-----------------|------------|---------|-----------|------------------------------------|------------------------------------|-------------------------------------|------------------------|-------------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>141300 | Power Mid<br>Ch. F Freq.<br>141500 | Power High<br>Ch. F Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |         |           | 706.5                              | 707.5                              | 708.5                               | 24.0                   | 0.0         |  |  |
| Frequency (MHz) |            |         |           |                                    |                                    |                                     |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                              | 22.90                              | 22.84                               |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                              | 22.96                              | 22.91                               |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                              | 22.93                              | 22.83                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                              | 22.88                              | 22.86                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                              | 22.79                              | 22.77                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                              | 22.75                              | 22.70                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                              | 22.88                              | 22.80                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.01                              | 22.92                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 1       | 40        | 22.85                              | 22.92                              | 22.83                               |                        |             |  |  |
| 15              | QPSK       | 1       | 77        | 22.83                              | 22.93                              | 22.91                               |                        |             |  |  |
| 15              | QPSK       | 36      | 0         | 22.79                              | 22.86                              | 22.79                               |                        |             |  |  |
| 15              | QPSK       | 36      | 22        | 22.91                              | 22.96                              | 22.92                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 36      | 43        | 22.70                              | 22.78                              | 22.70                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 75      | 0         | 22.84                              | 22.90                              | 22.87                               | 24.0                   | 0.0         |  |  |
| 15              | 16QAM      | 1       | 1         | 22.95                              | 22.91                              | 22.86                               | 24.0                   | 0.0         |  |  |
| 15              | 64QAM      | 1       | 1         | 21.43                              | 21.51                              | 21.49                               | 22.5                   | 1.5         |  |  |
| 15              | 256QAM     | 1       | 1         | 19.51                              | 19.55                              | 19.49                               | 20.5                   | 3.5         |  |  |
| Channel         |            |         |           | 140300                             | 141500                             | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |         |           | 704                                | 707.5                              | 711                                 | 24.0                   | 0.0         |  |  |
| 10              | QPSK       | 1       | 1         | 22.88                              | 22.99                              | 22.86                               | 24.0                   | 0.0         |  |  |
| Channel         |            |         |           | 140300                             | 141500                             | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                              | 713.5                               | 24.0                   | 0.0         |  |  |
| 5               | QPSK       | 1       | 1         | 22.89                              | 22.94                              | 22.87                               | 24.0                   | 0.0         |  |  |

| n12_Ant 1       |            |         |           |                                    |                                    |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|------------------------------------|-------------------------------------|------------------------|-------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>141300 | Power Mid<br>Ch. F Freq.<br>141500 | Power High<br>Ch. F Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                              | 708.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                    |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 23.34                              | 23.35                              | 23.31                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 23.33                              | 23.36                              | 23.31                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 23.31                              | 23.32                              | 23.31                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.89                              | 22.91                              | 22.84                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 22        | 23.15                              | 23.17                              | 23.15                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.82                              | 22.91                              | 22.87                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.95                              | 22.98                              | 22.93                               |                        |             |
| 15              | QPSK       | 1       | 1         | 23.35                              | 23.37                              | 23.36                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 23.19                              | 23.28                              | 23.24                               |                        |             |
| 15              | QPSK       | 1       | 77        | 23.34                              | 23.36                              | 23.34                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.40                              | 22.46                              | 22.44                               |                        |             |
| 15              | QPSK       | 36      | 22        | 23.19                              | 23.23                              | 23.16                               | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.26                              | 22.35                              | 22.30                               | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.49                              | 22.52                              | 22.45                               | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         | 22.97                              | 22.81                              | 22.51                               | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 21.05                              | 21.11                              | 21.09                               | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 19.08                              | 19.18                              | 19.17                               | 19.5                   | 4.5         |
| Channel         |            |         |           | 140300                             | 141500                             | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                                | 707.5                              | 711                                 | 24.0 <td>0.0</td>      | 0.0         |
| 10              | QPSK       | 1       | 1         | 23.32                              | 23.29                              | 23.26                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                             | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                              | 713.5                               | 24.0 <td>0.0</td>      | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.30                              | 23.33                              | 23.27                               | 24.0                   | 0.0         |

| n14_Ant 0       |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq. | Power Middle<br>Ch. F Freq. | Power High<br>Ch. F Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 710                      |                             |                           | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         |                          | 22.78                       |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 26        |                          | 22.80                       |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        |                          | 22.76                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 0         |                          | 22.84                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        |                          | 22.89                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        |                          | 22.63                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         |                          | 22.64                       |                           |                        |             |
| 10              | QPSK       | 1       | 1         |                          | 22.82                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        |                          | 22.80                       |                           |                        |             |
| 10              | QPSK       | 1       | 50        |                          | 22.72                       |                           |                        |             |
| 10              | QPSK       | 25      | 0         |                          | 22.65                       |                           |                        |             |
| 10              | QPSK       | 25      | 14        |                          | 22.71                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                          | 22.68                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 50      | 0         |                          | 22.68                       |                           | 24.0                   | 0.0         |
| 10              | 16QAM      | 1       | 1         |                          | 22.80                       |                           | 24.0                   | 0.0         |
| 10              | 64QAM      | 1       | 1         |                          | 21.57                       |                           | 22.5                   | 1.5         |
| 10              | 256QAM     | 1       | 1         |                          | 19.45                       |                           | 20.5                   | 3.5         |
| Channel         |            |         |           | 159100                   | 159800                      | 159100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 700.5                    | 710                         | 705.5                     | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.74                    | 22.75                       | 22.75                     | 24.0                   | 0.0         |

| n14_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 159.000               |                          |                        | 24.0                | 0.0      |  |  |
| Frequency (MHz) |            |         |           | 793                   |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 1       | 1         | 23.15                 |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 1       | 26        | 23.16                 |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 1       | 50        | 23.16                 |                          |                        | 24.0                | 0.0      |  |  |
| 10              | Pl2 BPSK   | 25      | 0         | 23.04                 |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 25      | 14        | 23.05                 |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 25      | 27        | 22.98                 |                          |                        |                     |          |  |  |
| 10              | Pl2 BPSK   | 50      | 0         | 23.00                 |                          |                        | 24.0                | 0.0      |  |  |
| 10              | QPSK       | 1       | 1         | 23.21                 |                          |                        |                     |          |  |  |
| 10              | QPSK       | 1       | 26        | 23.18                 |                          |                        | 24.0                | 0.0      |  |  |
| 10              | QPSK       | 1       | 50        | 23.16                 |                          |                        |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 22.55                 |                          |                        |                     | 23.5     |  |  |
| 10              | QPSK       | 25      | 14        | 23.11                 |                          |                        |                     | 24.0     |  |  |
| 10              | QPSK       | 25      | 27        | 22.53                 |                          |                        |                     | 23.5     |  |  |
| 10              | QPSK       | 50      | 0         | 22.51                 |                          |                        |                     | 23.5     |  |  |
| 10              | 16QAM      | 1       | 1         | 22.61                 |                          |                        |                     | 23.5     |  |  |
| 10              | 64QAM      | 1       | 1         | 21.33                 |                          |                        |                     | 22.0     |  |  |
| 10              | 256QAM     | 1       | 1         | 19.15                 |                          |                        |                     | 20.0     |  |  |
| Channel         |            |         |           | 159.00                | 159.00                   | 159.00                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  |                     |          |  |  |
| 5               | QPSK       | 1       | 1         | 23.12                 | 23.14                    | 23.08                  |                     | 24.0     |  |  |

| n25_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1870 1862.5 1865      |                          |                        | 18.0                | 0.0      |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.17 17.23 17.27     |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 17.31 17.36 17.37     |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 17.20 17.29 17.30     |                          |                        | 18.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 0         | 17.19 17.19 17.18     |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 108     | 54        | 17.16 17.32 17.17     |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 108     | 108       | 17.23 17.42 17.27     |                          |                        |                     |          |  |
| 40              | Pl2 BPSK   | 216     | 0         | 17.28 17.34 17.21     |                          |                        | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.36 17.46 17.32     |                          |                        |                     |          |  |
| 40              | QPSK       | 1       | 108       | 17.21 17.31 17.23     |                          |                        | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 17.34 17.32 17.22     |                          |                        |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.17 17.21 17.22     |                          |                        |                     |          |  |
| 40              | QPSK       | 108     | 54        | 17.31 17.42 17.28     |                          |                        |                     |          |  |
| 40              | QPSK       | 108     | 108       | 17.29 17.40 17.17     |                          |                        | 18.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.35 17.38 17.32     |                          |                        |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 17.28 17.42 17.36     |                          |                        |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 17.14 17.21 17.15     |                          |                        |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 17.26 17.36 17.23     |                          |                        | 18.0                | 0.0      |  |
| Channel         |            |         |           | 373500 376500 379500  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1867.5 1862.5 1867.5  |                          |                        |                     |          |  |
| 35              | QPSK       | 1       | 1         | 17.14 17.20 17.16     |                          |                        |                     |          |  |
| Channel         |            |         |           | 373000 376500 380000  |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865 1862.5 1865      |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.12 17.31 17.17     |                          |                        |                     |          |  |
| Channel         |            |         |           | 372500 376500 380500  |                          |                        |                     |          |  |
| 25              | QPSK       | 1       | 1         | 1862.5 1862.5 1862.5  |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5 1862.5 1862.5  |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 1         | 17.36 17.29 17.31     |                          |                        |                     |          |  |
| Channel         |            |         |           | 372000 373500 381000  |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 1860 1862.5 1905      |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1867.5 1862.5 1867.5  |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 17.33 17.36 17.37     |                          |                        |                     |          |  |
| Channel         |            |         |           | 371000 376500 382000  |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 1         | 1855 1862.5 1910      |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5 1862.5 1862.5  |                          |                        |                     |          |  |
| 0               | QPSK       | 1       | 1         | 17.27 17.28 17.30     |                          |                        |                     |          |  |
| Channel         |            |         |           | 370500 376500 382500  |                          |                        |                     |          |  |
| 0               | QPSK       | 1       | 1         | 1862.5 1862.5 1912.5  |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5 1862.5 1862.5  |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 1         | 17.28 17.30 17.27     |                          |                        |                     |          |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |  |
| Channel         |            |         |           | 1870                  |                          |                        | 19.0                | 0.0                 |          |  |
| Frequency (MHz) |            |         |           | 1870                  |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.59                 |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 17.51                 |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 17.35                 |                          |                        | 19.0                | 0.0                 |          |  |
| 40              | Pl2 BPSK   | 108     | 0         | 17.51                 |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 108     | 54        | 17.49                 |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 108     | 108       | 17.62                 |                          |                        |                     |                     |          |  |
| 40              | Pl2 BPSK   | 216     | 0         | 17.33                 |                          |                        | 19.0                | 0.0                 |          |  |
| 40              | QPSK       | 1       | 1         | 17.68                 |                          |                        |                     |                     |          |  |
| 40              | QPSK       | 1       | 108       | 17.56                 |                          |                        | 19.0                | 0.0                 |          |  |
| 40              | QPSK       | 1       | 214       | 17.37                 |                          |                        |                     |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.62                 |                          |                        |                     |                     |          |  |
| 40              | QPSK       | 108     | 54        | 17.64                 |                          |                        |                     | 19.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.39                 |                          |                        |                     |                     |          |  |
| 40              | QPSK       | 216     | 0         | 17.60                 |                          |                        |                     |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 17.60                 |                          |                        | 19.0                |                     | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.63                 |                          |                        |                     |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 17.51                 |                          |                        | 19.0                | 0.0                 |          |  |
| Channel         |            |         |           | 373500                | 376500                   | 379500                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1865                  | 1862.5                   | 1865                   | Tune-up limit (dBm) | MPR (dB)            |          |  |
| 35              | QPSK       | 1       | 1         | 17.57                 |                          |                        |                     |                     |          |  |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 |                     | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1862.5                   | 1900                   |                     |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.52                 |                          |                        | 19.0                |                     | 0.0      |  |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1862.5                   | 1902.5                 |                     |                     |          |  |
| 25              | QPSK       | 1       | 1         | 17.52                 |                          |                        |                     | 19.0                | 0.0      |  |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                  | 1862.5                   | 1905                   |                     |                     |          |  |
| 20              | QPSK       | 1       | 1         | 17.58                 |                          |                        | 19.0                |                     | 0.0      |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1862.5                   | 1907.5                 |                     |                     |          |  |
| 15              | QPSK       | 1       | 1         | 17.50                 |                          |                        |                     | 19.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1855                  | 1862.5                   | 1910                   |                     |                     |          |  |
| 10              | QPSK       | 1       | 1         | 17.61                 |                          |                        | 19.0                | 0.0                 |          |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 |                     |                     |          |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1862.5                   | 1912.5                 |                     |                     |          |  |
| 5               | QPSK       | 1       | 1         | 17.63                 |                          |                        | 19.0                | 0.0                 |          |  |
| Channel         |            |         |           | 370000                | 376500                   | 383000                 |                     |                     |          |  |

| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.99                        | 23.02                           | 22.97                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.92                        | 23.00                           | 22.98                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         |                     |          |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.87                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.62                           | 22.58                         | 23.5                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 18.13                        | 18.17                           | 18.14                         | 20.0                | 4.0      |
| Channel         |            |         |           | 163300                       | 163300                          | 163300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |

| n26(FCC)_Ant 1  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 23.5                | 0.0      |
| Frequency (MHz) |            |         |           | 22.50                        | 22.49                           | 22.50                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.42                        | 22.48                           | 22.39                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.62                        | 22.65                           | 22.58                         |                     |          |
| 20              | Pl2 BPSK   | 50      | 0         | 22.52                        | 22.46                           | 22.43                         | 23.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.47                        | 22.49                           | 22.51                         | 23.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.50                        | 22.55                           | 22.43                         | 23.5                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.61                        | 22.62                           | 22.57                         | 23.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.53                        | 22.69                           | 22.56                         | 23.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.48                        | 22.60                           | 22.48                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.66                        | 22.53                           | 22.61                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.00                        | 21.95                           | 22.07                         |                     |          |
| 20              | QPSK       | 50      | 28        | 22.43                        | 22.51                           | 22.42                         | 23.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.14                        | 22.19                           | 22.17                         | 23.0                | 0.5      |
| 20              | QPSK       | 100     | 0         | 21.86                        | 22.05                           | 22.02                         | 23.0                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 21.95                        | 21.95                           | 22.03                         | 23.0                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 20.41                        | 20.60                           | 20.46                         | 21.5                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 18.70                        | 18.62                           | 18.59                         | 19.5                | 4.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 23.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.34                        | 22.43                           | 22.30                         | 23.5                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 23.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.34                        | 22.44                           | 22.35                         | 23.5                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 23.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.39                        | 22.39                           | 22.38                         | 23.5                | 0.0      |

| n30_Ant 9       |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 460000 | Power Middle Ch. / Freq. 462500 | Power High Ch. / Freq. 465000 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2310                         |                                 |                               | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 22.85                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 22.78                        |                                 |                               |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 22.78                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 0         | 22.66                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 14        | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 25      | 27        | 22.67                        |                                 |                               | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 50      | 0         | 22.72                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.90                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 22.88                        |                                 |                               |                     |          |
| 10              | QPSK       | 1       | 50        | 22.86                        |                                 |                               |                     |          |
| 10              | QPSK       | 25      | 0         | 22.61                        |                                 |                               |                     |          |
| 10              | QPSK       | 25      | 14        | 22.75                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        | 22.71                        |                                 |                               | 24.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 22.73                        |                                 |                               | 24.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 22.78                        |                                 |                               | 22.5                | 1.5      |
| 10              | 64QAM      | 1       | 1         | 22.05                        |                                 |                               | 22.5                | 3.5      |
| 10              | 256QAM     | 1       | 1         | 19.86                        |                                 |                               | 20.5                | 4.0      |
| Channel         |            |         |           | 461500                       | 462500                          | 463500                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                       | 2310                            | 2312.5                        | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.77                        | 22.80                           | 22.78                         | 24.0                | 0.0      |



| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 15.59                           |                        | 17.5                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 15.65                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 15.60                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 15.59                           |                        | 17.5                | 0.0      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 15.60                           |                        | 17.5                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 15.57                           |                        | 17.5                | 0.0      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 15.64                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 15.71                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 15.57                           |                        | 17.5                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 15.57                           |                        | 17.5                | 0.0      |
| 10              | QPSK       | 25      | 0         |                       | 15.59                           |                        |                     |          |
| 10              | QPSK       | 25      | 14        |                       | 15.67                           |                        |                     |          |
| 10              | QPSK       | 25      | 27        |                       | 15.61                           |                        | 17.5                | 0.0      |
| 10              | QPSK       | 50      | 0         |                       | 15.56                           |                        |                     |          |
| 10              | 16QAM      | 1       | 1         |                       | 15.60                           |                        | 17.5                | 0.0      |
| 10              | 64QAM      | 1       | 1         |                       | 15.62                           |                        | 17.5                | 0.0      |
| 10              | 256QAM     | 1       | 1         |                       | 15.57                           |                        | 17.5                | 0.0      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 15.61                 | 15.67                           | 15.64                  | 17.5                | 0.0      |



| n66_Ant 0       |            |         |           |                              |                                 |                               |                     |          |  |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 346000 | Power Middle Ch. / Freq. 349000 | Power High Ch. / Freq. 352000 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1730                         | 1745                            | 1760                          | 18.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                         | 1745                            | 1760                          |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.16                        | 17.16                           | 17.15                         |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 16.99                        | 17.11                           | 16.99                         |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 17.13                        | 17.17                           | 17.15                         | 18.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 0         | 17.24                        | 17.20                           | 17.17                         | 18.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 54        | 17.14                        | 17.19                           | 17.19                         | 18.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 108       | 17.11                        | 17.03                           | 17.01                         | 18.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 216     | 0         | 17.18                        | 17.23                           | 17.21                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.23                        | 17.27                           | 17.23                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.06                        | 17.05                           | 16.99                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 17.15                        | 17.19                           | 17.16                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 17.19                        | 17.17                           | 17.15                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 17.20                        | 17.23                           | 17.21                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.07                        | 17.19                           | 17.18                         | 18.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.17                        | 17.21                           | 17.20                         | 18.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.23                        | 17.20                           | 17.18                         | 18.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.08                        | 17.10                           | 17.01                         | 18.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.18                        | 17.21                           | 17.16                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 352000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                       | 1745                            | 1762.5                        | 18.0                | 0.0      |  |
| 35              | QPSK       | 1       | 1         | 17.18                        | 17.21                           | 17.06                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 353000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                         | 1745                            | 1765                          | 18.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 17.05                        | 17.19                           | 17.10                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 353000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                       | 1745                            | 1767.5                        | 18.0                | 0.0      |  |
| 25              | QPSK       | 1       | 1         | 17.05                        | 17.10                           | 17.14                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 354000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                         | 1745                            | 1770                          | 18.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 17.14                        | 17.14                           | 17.09                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 343000                       | 349000                          | 354000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                       | 1745                            | 1772.5                        | 18.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 17.19                        | 17.18                           | 17.06                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 343000                       | 349000                          | 356000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                         | 1745                            | 1775                          | 18.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 17.11                        | 17.16                           | 17.11                         | 18.0                | 0.0      |  |
| Channel         |            |         |           | 342000                       | 349000                          | 356000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                       | 1745                            | 1777.5                        | 18.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 17.10                        | 17.19                           | 17.08                         | 18.0                | 0.0      |  |

| n66_Ant 1       |            |         |           |                              |                                 |                               |                     |          |  |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 346000 | Power Middle Ch. / Freq. 349000 | Power High Ch. / Freq. 352000 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1730                         | 1745                            | 1760                          | 18.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                         | 1745                            | 1760                          |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.47                        | 17.52                           | 17.39                         |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 108       | 17.36                        | 17.47                           | 17.43                         |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 214       | 17.27                        | 17.36                           | 17.36                         | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 0         | 17.43                        | 17.45                           | 17.45                         | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 54        | 17.36                        | 17.50                           | 17.42                         | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 108     | 108       | 17.44                        | 17.54                           | 17.47                         | 18.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 216     | 0         | 17.28                        | 17.40                           | 17.35                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.45                        | 17.50                           | 17.51                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.32                        | 17.48                           | 17.44                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 17.26                        | 17.32                           | 17.27                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 17.45                        | 17.47                           | 17.40                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 17.45                        | 17.53                           | 17.42                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.29                        | 17.39                           | 17.30                         | 18.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.46                        | 17.49                           | 17.40                         | 18.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.36                        | 17.44                           | 17.51                         | 18.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.31                        | 17.40                           | 17.34                         | 18.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.33                        | 17.33                           | 17.33                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 352000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                       | 1745                            | 1762.5                        | 18.5                | 0.0      |  |
| 35              | QPSK       | 1       | 1         | 17.38                        | 17.50                           | 17.38                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 353000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                         | 1745                            | 1765                          | 18.5                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 17.40                        | 17.41                           | 17.32                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 353000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                       | 1745                            | 1767.5                        | 18.5                | 0.0      |  |
| 25              | QPSK       | 1       | 1         | 17.40                        | 17.48                           | 17.39                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 354000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                         | 1745                            | 1770                          | 18.5                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 17.33                        | 17.41                           | 17.31                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 343000                       | 349000                          | 354000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                       | 1745                            | 1772.5                        | 18.5                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 17.44                        | 17.39                           | 17.28                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 343000                       | 349000                          | 356000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                         | 1745                            | 1775                          | 18.5                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 17.32                        | 17.49                           | 17.33                         | 18.5                | 0.0      |  |
| Channel         |            |         |           | 342000                       | 349000                          | 356000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                       | 1745                            | 1777.5                        | 18.5                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 17.35                        | 17.48                           | 17.33                         | 18.5                | 0.0      |  |

| n70_Ant 0       |            |         |           |                              |                                 |                               |                     |          |  |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 346000 | Power Middle Ch. / Freq. 349000 | Power High Ch. / Freq. 352000 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 1702.5                       |                                 |                               | 20.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1702.5                       |                                 |                               |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 1         | 16.87                        |                                 |                               |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 40        | 16.77                        |                                 |                               |                     |          |  |
| 15              | Pl2 BPSK   | 1       | 77        | 16.74                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 0         | 16.86                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 22        | 16.87                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 36      | 43        | 16.91                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | Pl2 BPSK   | 75      | 0         | 16.74                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 16.95                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 1       | 40        | 16.83                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 1       | 77        | 16.73                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 36      | 0         | 16.86                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 36      | 22        | 16.90                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 36      | 43        | 16.71                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | QPSK       | 75      | 0         | 16.83                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | 16QAM      | 1       | 1         | 16.85                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | 64QAM      | 1       | 1         | 16.82                        |                                 |                               | 20.0                | 0.0      |  |
| 15              | 256QAM     | 1       | 1         | 16.76                        |                                 |                               | 20.0                | 0.0      |  |
| Channel         |            |         |           | 346000                       | 349000                          | 341000                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1700                         | 1702.5                          | 1705                          | 20.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 16.72                        | 16.79                           | 16.68                         | 20.0                | 0.0      |  |
| Channel         |            |         |           | 339000                       | 340500                          | 341500                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1667.5                       | 1702.5                          | 1707.5                        | 20.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 16.75                        | 16.82                           | 16.78                         | 20.0                | 0.0      |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 1       | 1         | 18.32                 |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 1       | 40        | 18.26                 |                          |                        | 19.0                | 0.0      |
| 15              | Pl2 BPSK   | 1       | 77        | 18.21                 |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 36      | 0         | 18.31                 |                          |                        | 19.0                | 0.0      |
| 15              | Pl2 BPSK   | 36      | 22        | 18.33                 |                          |                        | 19.0                | 0.0      |
| 15              | Pl2 BPSK   | 36      | 43        | 18.21                 |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 75      | 0         | 18.17                 |                          |                        | 19.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 18.34                 |                          |                        |                     |          |
| 15              | QPSK       | 1       | 40        | 18.27                 |                          |                        | 19.0                | 0.0      |
| 15              | QPSK       | 1       | 77        | 18.16                 |                          |                        |                     |          |
| 15              | QPSK       | 36      | 0         | 18.22                 |                          |                        | 19.0                | 0.0      |
| 15              | QPSK       | 36      | 22        | 18.27                 |                          |                        | 19.0                | 0.0      |
| 15              | QPSK       | 36      | 43        | 18.12                 |                          |                        | 19.0                | 0.0      |
| 15              | QPSK       | 75      | 0         | 18.23                 |                          |                        |                     |          |
| 15              | 16QAM      | 1       | 1         | 18.22                 |                          |                        | 19.0                | 0.0      |
| 15              | 64QAM      | 1       | 1         | 18.24                 |                          |                        | 19.0                | 0.0      |
| 15              | 256QAM     | 1       | 1         | 18.20                 |                          |                        | 19.0                | 0.0      |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |
| 10              | QPSK       | 1       | 1         | 18.16                 | 18.10                    | 18.22                  | 19.0                | 0.0      |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 18.16                 | 18.22                    | 18.16                  | 19.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 678                   | 680.5                    | 683                    |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         | 23.05                 | 23.07                    | 22.98                  |                     |          |
| 30              | Pl2 BPSK   | 1       | 80        | 22.59                 | 22.60                    | 22.59                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       | 22.63                 | 22.68                    | 22.65                  |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         | 22.65                 | 22.72                    | 22.69                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        | 22.65                 | 22.74                    | 22.66                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        | 22.46                 | 22.51                    | 22.49                  |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         | 22.66                 | 22.68                    | 22.62                  | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.06                 | 23.12                    | 23.06                  |                     |          |
| 30              | QPSK       | 1       | 80        | 22.64                 | 22.65                    | 22.64                  | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       | 22.68                 | 22.72                    | 22.67                  |                     |          |
| 30              | QPSK       | 80      | 0         | 22.66                 | 22.73                    | 22.71                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        | 22.68                 | 22.75                    | 22.72                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        | 22.38                 | 22.48                    | 22.39                  |                     |          |
| 30              | QPSK       | 160     | 0         | 22.66                 | 22.71                    | 22.67                  | 24.0                | 0.0      |
| 30              | 16QAM      | 1       | 1         | 22.99                 | 23.02                    | 22.95                  | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         | 22.01                 | 22.07                    | 22.04                  | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         | 20.07                 | 20.14                    | 20.09                  | 20.5                | 3.5      |
| Channel         |            |         |           | 134100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 675.5                 | 680.5                    | 685.5                  |                     |          |
| 25              | QPSK       | 1       | 1         | 23.06                 | 23.02                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 686                    |                     |          |
| 20              | QPSK       | 1       | 1         | 23.02                 | 23.04                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15              | QPSK       | 1       | 1         | 22.98                 | 23.05                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |          |
| 10              | QPSK       | 1       | 1         | 23.02                 | 23.02                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 685.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 22.98                 | 23.08                    | 22.95                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 678                   | 680.5                    | 683                    |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         | 23.22                 | 23.27                    | 23.15                  |                     |          |
| 30              | Pl2 BPSK   | 1       | 80        | 23.02                 | 23.08                    | 22.90                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       | 22.85                 | 22.89                    | 22.83                  |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         | 22.83                 | 22.91                    | 22.75                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        | 22.92                 | 22.95                    | 22.79                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        | 22.86                 | 22.89                    | 22.69                  |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         | 22.94                 | 23.01                    | 22.83                  | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.26                 | 23.30                    | 23.16                  |                     |          |
| 30              | QPSK       | 1       | 80        | 22.93                 | 23.02                    | 22.86                  | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       | 22.93                 | 22.95                    | 22.83                  |                     |          |
| 30              | QPSK       | 80      | 0         | 22.99                 | 22.88                    | 22.54                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        | 22.90                 | 22.96                    | 22.80                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        | 22.62                 | 22.65                    | 22.35                  |                     |          |
| 30              | QPSK       | 160     | 0         | 22.94                 | 22.98                    | 22.97                  | 24.0                | 0.0      |
| 30              | 16QAM      | 1       | 1         | 22.90                 | 22.98                    | 22.84                  | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         | 21.38                 | 21.43                    | 21.26                  | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         | 19.39                 | 19.42                    | 19.30                  | 20.5                | 3.5      |
| Channel         |            |         |           | 135100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 675                   | 680.5                    | 685.5                  |                     |          |
| 25              | QPSK       | 1       | 1         | 23.18                 | 23.27                    | 23.09                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 686                    |                     |          |
| 20              | QPSK       | 1       | 1         | 23.20                 | 23.24                    | 23.06                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15              | QPSK       | 1       | 1         | 23.26                 | 23.27                    | 23.09                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |          |
| 10              | QPSK       | 1       | 1         | 23.18                 | 23.24                    | 23.05                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 685.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 23.23                 | 23.23                    | 23.05                  | 24.0                | 0.0      |



| n38_Ant 9       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 17.76                 | 17.80                    | 17.81                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 17.84                 | 17.86                    | 17.78                  | 19.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 17.72                 | 17.66                    | 17.55                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 17.84                 | 17.84                    | 17.82                  | 19.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 17.75                 | 17.80                    | 17.77                  | 19.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 17.84                 | 17.87                    | 17.78                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 17.73                 | 17.62                    | 17.62                  | 19.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.38                 | 17.53                    | 17.48                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 17.74                 | 17.83                    | 17.85                  | 19.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 17.69                 | 17.62                    | 17.68                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 17.75                 | 17.76                    | 17.72                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 17.71                 | 17.75                    | 17.75                  | 19.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 17.77                 | 17.61                    | 17.68                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 17.71                 | 17.77                    | 17.76                  | 19.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.79                 | 17.92                    | 17.88                  | 19.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.86                 | 17.83                    | 17.84                  | 19.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.75                 | 17.71                    | 17.97                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2582.01               | 2595                     | 2604.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.75                 | 17.67                    | 17.74                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 520000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 17.86                 | 17.76                    | 17.63                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2595                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 17.73                 | 17.64                    | 17.67                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2595                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 17.64                 | 17.72                    | 17.60                  | 19.0                | 0.0      |  |

| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2580.02               | 2595                     | 2609.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 15.42                 | 15.35                    | 15.44                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 15.22                 | 15.20                    | 15.17                  | 16.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 15.17                 | 15.24                    | 15.31                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 15.30                 | 15.37                    | 15.36                  | 16.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 15.30                 | 15.20                    | 15.29                  | 16.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 15.16                 | 15.27                    | 15.26                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 15.42                 | 15.41                    | 15.42                  | 16.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 15.38                 | 15.47                    | 15.43                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 15.22                 | 15.34                    | 15.25                  | 16.5                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 15.28                 | 15.41                    | 15.38                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 15.31                 | 15.27                    | 15.28                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 15.31                 | 15.38                    | 15.38                  | 16.5                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 15.27                 | 15.28                    | 15.34                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 15.17                 | 15.25                    | 15.24                  | 16.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 15.40                 | 15.43                    | 15.38                  | 16.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 15.16                 | 15.31                    | 15.21                  | 16.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 15.26                 | 15.32                    | 15.30                  | 16.5                | 0.0      |  |
| Channel         |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2582.01               | 2595                     | 2604.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 15.19                 | 15.31                    | 15.30                  | 16.5                | 0.0      |  |
| Channel         |            |         |           | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.20                 | 15.35                    | 15.31                  | 16.5                | 0.0      |  |
| Channel         |            |         |           | 515002                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2577.51               | 2595                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.18                 | 15.24                    | 15.26                  | 16.5                | 0.0      |  |
| Channel         |            |         |           | 514000                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2574.02               | 2595                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.24                 | 15.34                    | 15.33                  | 16.5                | 0.0      |  |

| FCC_n41_Ant 9   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506022                | 518998                   | 520002                 |                     |          |  |
|                 |            |         |           | 2546.01               | 2562.99                  | 2560                   |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 17.96                 | 17.94                    | 17.91                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 17.61                 | 17.81                    | 17.86                  | 19.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 17.94                 | 17.69                    | 17.66                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 17.89                 | 17.86                    | 17.80                  | 19.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 17.61                 | 17.85                    | 17.86                  | 19.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 17.83                 | 17.74                    | 17.59                  | 19.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 270     | 0         | 17.85                 | 17.89                    | 17.89                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 17.93                 | 17.97                    | 17.94                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 17.85                 | 17.69                    | 17.63                  | 19.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 17.85                 | 17.89                    | 17.87                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 17.85                 | 17.83                    | 17.79                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 17.94                 | 17.87                    | 17.83                  | 19.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 17.79                 | 17.84                    | 17.75                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 17.71                 | 17.81                    | 17.79                  | 18.5                | 0.5      |  |
| 100             | 16QAM      | 1       | 1         | 17.93                 | 17.95                    | 17.90                  | 19.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 17.73                 | 17.81                    | 17.83                  | 19.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 17.82                 | 17.78                    | 17.72                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506200                | 518998                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2541                  | 2562.99                  | 2644.98                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 17.73                 | 17.85                    | 17.73                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536.02               | 2562.99                  | 2649.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 17.70                 | 17.80                    | 17.67                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518998                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536                  | 2562.99                  | 2659.99                |                     |          |  |
| 70              | QPSK       | 1       | 1         | 17.78                 | 17.76                    | 17.79                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518998                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536                  | 2562.99                  | 2659.99                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 17.74                 | 17.82                    | 17.66                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2521.02               | 2562.99                  | 2654.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 17.72                 | 17.79                    | 17.69                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2516.01               | 2562.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 17.76                 | 17.84                    | 17.74                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2511                  | 2562.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.75                 | 17.80                    | 17.70                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518998                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2506.02               | 2562.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 17.70                 | 17.72                    | 17.76                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500202                | 518998                   | 537998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2503.5                | 2562.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 17.71                 | 17.72                    | 17.78                  | 19.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 499202                | 518998                   | 538998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2503.11               | 2562.99                  | 2682.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 17.75                 | 17.77                    | 17.89                  | 19.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.02                | 19.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 1         | 17.96                 | 17.84                    | 17.81                  | 19.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 1       | 137       | 17.61                 | 17.81                    | 17.86                  |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 271       | 17.94                 | 17.69                    | 17.66                  |                     |          |  |
| 100                | PQ2 BPSK   | 135     | 0         | 17.89                 | 17.86                    | 17.80                  | 19.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 69        | 17.61                 | 17.85                    | 17.86                  | 19.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 138       | 17.83                 | 17.74                    | 17.59                  | 19.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 270     | 0         | 17.85                 | 17.89                    | 17.99                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 17.85                 | 17.87                    | 17.94                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 17.85                 | 17.69                    | 17.63                  | 19.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 17.85                 | 17.89                    | 17.87                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 17.85                 | 17.83                    | 17.79                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 17.74                 | 17.87                    | 17.91                  | 19.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 17.79                 | 17.84                    | 17.75                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 17.71                 | 17.81                    | 17.79                  | 19.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 17.93                 | 17.85                    | 17.80                  | 19.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 17.73                 | 17.81                    | 17.83                  | 19.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 17.82                 | 17.78                    | 17.72                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 5060.00               | 5189.98                  | 5289.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 17.73                 | 17.85                    | 17.73                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 5189.98                  | 5299.98                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2640.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 17.70                 | 17.80                    | 17.67                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 5060.04               | 5189.98                  | 5291.00                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 17.78                 | 17.76                    | 17.79                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 505200                | 5189.98                  | 5319.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2659.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 17.74                 | 17.82                    | 17.68                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 5189.98                  | 5329.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 17.72                 | 17.73                    | 17.69                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 503502                | 5189.98                  | 5340.00                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 17.76                 | 17.84                    | 17.74                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 502200                | 5189.98                  | 5359.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 17.75                 | 17.80                    | 17.70                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 5189.98                  | 5359.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2508.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 17.70                 | 17.73                    | 17.76                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 5189.98                  | 5364.96                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 17.71                 | 17.72                    | 17.78                  | 19.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 5189.98                  | 5370.00                | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 17.76                 | 17.77                    | 17.69                  | 19.0                | 0.0      |  |



| FCC_n41_Ant 1   |            |         |           |                       |                          |                        |                     |          |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 100             | P22 BPSK   | 1       | 1         | 14.91                 | 14.91                    | 14.87                  |                     |          |     |
| 100             | P22 BPSK   | 1       | 137       | 14.70                 | 14.75                    | 14.76                  | 16.5                |          | 0.0 |
| 100             | P22 BPSK   | 1       | 271       | 14.51                 | 14.58                    | 14.65                  |                     |          |     |
| 100             | P22 BPSK   | 135     | 0         | 14.90                 | 14.95                    | 14.94                  | 16.5                |          | 0.0 |
| 100             | P22 BPSK   | 135     | 69        | 14.62                 | 14.68                    | 14.74                  | 16.5                |          | 0.0 |
| 100             | P22 BPSK   | 135     | 138       | 14.63                 | 14.70                    | 14.55                  | 16.5                |          | 0.0 |
| 100             | P22 BPSK   | 270     | 0         | 14.81                 | 14.85                    | 14.82                  | 16.5                |          | 0.0 |
| 100             | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 14.91                  |                     |          |     |
| 100             | QPSK       | 1       | 137       | 14.51                 | 14.71                    | 14.59                  | 16.5                |          | 0.0 |
| 100             | QPSK       | 1       | 271       | 14.84                 | 14.84                    | 14.74                  |                     |          |     |
| 100             | QPSK       | 135     | 0         | 14.68                 | 14.68                    | 14.74                  |                     |          |     |
| 100             | QPSK       | 135     | 69        | 14.65                 | 14.62                    | 14.65                  | 16.5                |          | 0.0 |
| 100             | QPSK       | 135     | 138       | 14.81                 | 14.89                    | 14.86                  | 16.5                |          | 0.0 |
| 100             | QPSK       | 270     | 0         | 14.62                 | 14.69                    | 14.68                  | 16.5                |          | 0.0 |
| 100             | 16QAM      | 1       | 1         | 14.81                 | 14.82                    | 14.80                  | 16.5                |          | 0.0 |
| 100             | 64QAM      | 1       | 1         | 14.71                 | 14.69                    | 14.75                  | 16.5                |          | 0.0 |
| 100             | 256QAM     | 1       | 1         | 14.58                 | 14.67                    | 14.63                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 508200          | 518988     | 529986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| 90              | QPSK       | 1       | 1         | 14.70                 | 14.78                    | 14.73                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 507204          | 518988     | 529986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 80              | QPSK       | 1       | 1         | 14.81                 | 14.82                    | 14.83                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 506202          | 518988     | 531986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 70              | QPSK       | 1       | 1         | 14.73                 | 14.80                    | 14.80                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 505200          | 518988     | 531986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 60              | QPSK       | 1       | 1         | 14.79                 | 14.81                    | 14.79                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 504204          | 518988     | 532986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 50              | QPSK       | 1       | 1         | 14.74                 | 14.79                    | 14.84                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 503202          | 518988     | 534000  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 40              | QPSK       | 1       | 1         | 14.73                 | 14.81                    | 14.82                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 502200          | 518988     | 535986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 30              | QPSK       | 1       | 1         | 14.79                 | 14.79                    | 14.86                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 501204          | 518988     | 535986  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 20              | QPSK       | 1       | 1         | 14.76                 | 14.83                    | 14.83                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 500700          | 518988     | 536486  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 15              | QPSK       | 1       | 1         | 14.75                 | 14.86                    | 14.76                  | 16.5                |          | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| 500202          | 518988     | 537000  |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |     |
| 10              | QPSK       | 1       | 1         | 14.73                 | 14.86                    | 14.86                  | 16.5                |          | 0.0 |

| FCC_n41 HPUE_Ant 1 |            |         |           |                       |                          |                        |                     |          |     |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 100                | P22 BPSK   | 1       | 1         | 14.91                 | 14.91                    | 14.87                  |                     |          |     |
| 100                | P22 BPSK   | 1       | 137       | 14.70                 | 14.75                    | 14.76                  | 16.5                |          | 0.0 |
| 100                | P22 BPSK   | 1       | 271       | 14.51                 | 14.58                    | 14.65                  |                     |          |     |
| 100                | P22 BPSK   | 135     | 0         | 14.90                 | 14.95                    | 14.94                  | 16.5                |          | 0.0 |
| 100                | P22 BPSK   | 135     | 69        | 14.62                 | 14.68                    | 14.74                  | 16.5                |          | 0.0 |
| 100                | P22 BPSK   | 135     | 138       | 14.63                 | 14.70                    | 14.55                  | 16.5                |          | 0.0 |
| 100                | P22 BPSK   | 270     | 0         | 14.81                 | 14.85                    | 14.82                  |                     |          |     |
| 100                | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 14.91                  |                     |          |     |
| 100                | QPSK       | 1       | 137       | 14.51                 | 14.71                    | 14.59                  | 16.5                |          | 0.0 |
| 100                | QPSK       | 1       | 271       | 14.84                 | 14.84                    | 14.74                  |                     |          |     |
| 100                | QPSK       | 135     | 0         | 14.68                 | 14.68                    | 14.74                  |                     |          |     |
| 100                | QPSK       | 135     | 69        | 14.65                 | 14.62                    | 14.65                  | 16.5                |          | 0.0 |
| 100                | QPSK       | 135     | 138       | 14.81                 | 14.89                    | 14.86                  |                     |          |     |
| 100                | QPSK       | 270     | 0         | 14.62                 | 14.69                    | 14.68                  | 16.5                |          | 0.0 |
| 100                | 16QAM      | 1       | 1         | 14.81                 | 14.82                    | 14.80                  | 16.5                |          | 0.0 |
| 100                | 64QAM      | 1       | 1         | 14.71                 | 14.69                    | 14.75                  | 16.5                |          | 0.0 |
| 100                | 256QAM     | 1       | 1         | 14.58                 | 14.67                    | 14.63                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 50521                 | 2292.99                  | 2244.98                | Tune-up limit (dBm) | MPR (dB) |     |
| 90                 | QPSK       | 1       | 1         | 14.70                 | 14.78                    | 14.73                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 507204                | 518988                   | 529986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 80                 | QPSK       | 1       | 1         | 14.81                 | 14.82                    | 14.83                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 506202                | 518988                   | 531986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 70                 | QPSK       | 1       | 1         | 14.73                 | 14.80                    | 14.80                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 505200                | 518988                   | 531986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 60                 | QPSK       | 1       | 1         | 14.79                 | 14.81                    | 14.76                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 504204                | 518988                   | 532986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 50                 | QPSK       | 1       | 1         | 14.74                 | 14.79                    | 14.84                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 503202                | 518988                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 40                 | QPSK       | 1       | 1         | 14.73                 | 14.81                    | 14.82                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 502200                | 518988                   | 535986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 30                 | QPSK       | 1       | 1         | 14.79                 | 14.79                    | 14.86                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 501204                | 518988                   | 535986                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 20                 | QPSK       | 1       | 1         | 14.76                 | 14.83                    | 14.83                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 500700                | 518988                   | 536486                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 25035                 | 2292.99                  | 2242.48                | Tune-up limit (dBm) | MPR (dB) |     |
| 15                 | QPSK       | 1       | 1         | 14.79                 | 14.86                    | 14.76                  | 16.5                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
|                    |            |         |           | 500202                | 518988                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 10                 | QPSK       | 1       | 1         | 14.73                 | 14.86                    | 14.86                  | 16.5                |          | 0.0 |

| FCC_n41_Ant 2   |            |         |           |                                |                                   |                                 |                        |             |     |
|-----------------|------------|---------|-----------|--------------------------------|-----------------------------------|---------------------------------|------------------------|-------------|-----|
| BW (MHz)        | Modulation | RB Size | RB Offset | Ch. / Power<br>Low Ch. / Freq. | Ch. / Power<br>Middle Ch. / Freq. | Ch. / Power<br>High Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 100             | P22 BPSK   | 1       | 1         | 21.41                          | 21.53                             | 21.56                           |                        |             |     |
| 100             | P22 BPSK   | 1       | 137       | 21.47                          | 21.69                             | 21.66                           | 23.0                   |             | 0.0 |
| 100             | P22 BPSK   | 1       | 271       | 21.41                          | 21.56                             | 21.54                           |                        |             |     |
| 100             | P22 BPSK   | 135     | 9         | 21.48                          | 21.56                             | 21.57                           | 23.0                   |             | 0.0 |
| 100             | P22 BPSK   | 135     | 69        | 21.41                          | 21.57                             | 21.53                           | 23.0                   |             | 0.0 |
| 100             | P22 BPSK   | 135     | 138       | 21.41                          | 21.69                             | 21.74                           | 23.0                   |             | 0.0 |
| 100             | P22 BPSK   | 270     | 0         | 21.28                          | 21.47                             | 21.46                           |                        |             |     |
| 100             | QPSK       | 1       | 1         | 21.50                          | 21.68                             | 21.78                           |                        |             |     |
| 100             | QPSK       | 1       | 137       | 21.42                          | 21.62                             | 21.56                           | 23.0                   |             | 0.0 |
| 100             | QPSK       | 1       | 271       | 21.33                          | 21.54                             | 21.81                           |                        |             |     |
| 100             | QPSK       | 135     | 9         | 21.37                          | 21.56                             | 21.50                           | 23.0                   |             | 0.0 |
| 100             | QPSK       | 135     | 69        | 21.32                          | 21.70                             | 21.76                           | 23.0                   |             | 0.0 |
| 100             | QPSK       | 135     | 138       | 21.46                          | 21.60                             | 21.70                           | 23.0                   |             | 0.0 |
| 100             | QPSK       | 270     | 0         | 21.41                          | 21.63                             | 21.64                           |                        |             |     |
| 100             | 16QAM      | 1       | 1         | 21.34                          | 21.51                             | 21.51                           | 23.0                   |             | 0.0 |
| 100             | 64QAM      | 1       | 1         | 21.41                          | 21.60                             | 21.62                           | 23.0                   |             | 0.0 |
| 100             | 256QAM     | 1       | 1         | 20.83                          | 20.77                             | 20.85                           | 22.0                   |             | 1.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 50              | QPSK       | 1       | 1         | 21.38                          | 21.61                             | 21.79                           |                        |             |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 50              | QPSK       | 1       | 1         | 20.724                         | 518.698                           | 520.998                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 50              | QPSK       | 1       | 1         | 21.33                          | 21.48                             | 21.72                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 50              | QPSK       | 1       | 1         | 20.602                         | 518.698                           | 531.000                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 70              | QPSK       | 1       | 1         | 21.32                          | 21.54                             | 21.65                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 70              | QPSK       | 1       | 1         | 20.602                         | 518.698                           | 531.000                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 60              | QPSK       | 1       | 1         | 21.40                          | 21.55                             | 21.67                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 60              | QPSK       | 1       | 1         | 50.204                         | 518.698                           | 530.998                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 50              | QPSK       | 1       | 1         | 21.31                          | 21.52                             | 21.60                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 40              | QPSK       | 1       | 1         | 20.602                         | 518.698                           | 530.000                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 40              | QPSK       | 1       | 1         | 2516.01                        | 2562.99                           | 2670                            | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 40              | QPSK       | 1       | 1         | 21.41                          | 21.51                             | 21.64                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 30              | QPSK       | 1       | 1         | 20.602                         | 518.698                           | 530.998                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 30              | QPSK       | 1       | 1         | 50.204                         | 518.698                           | 531.998                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 20              | QPSK       | 1       | 1         | 21.40                          | 21.54                             | 21.64                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 20              | QPSK       | 1       | 1         | 500.700                        | 518.698                           | 530.496                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 15              | QPSK       | 1       | 1         | 2503.5                         | 2562.99                           | 2682.48                         | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 15              | QPSK       | 1       | 1         | 21.42                          | 21.58                             | 21.68                           | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 10              | QPSK       | 1       | 1         | 2501.01                        | 2562.99                           | 2685                            | 23.0                   |             | 0.0 |
| Channel         |            |         |           |                                |                                   |                                 |                        |             |     |
| Frequency (MHz) |            |         |           |                                |                                   |                                 |                        |             |     |
| 10              | QPSK       | 1       | 1         | 21.38                          | 21.55                             | 21.71                           | 23.0                   |             | 0.0 |



| FCC_n41 HPUE_Ant 2 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 21.41                 | 21.53                    | 21.56                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 21.47                 | 21.69                    | 21.66                  | 23.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 21.41                 | 21.56                    | 21.54                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 21.48                 | 21.56                    | 21.57                  | 23.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 21.41                 | 21.57                    | 21.53                  | 23.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 21.41                 | 21.69                    | 21.74                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 21.28                 | 21.47                    | 21.48                  | 23.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         | 21.30                 | 21.08                    | 21.76                  |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 21.42                 | 21.52                    | 21.52                  | 23.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 21.33                 | 21.54                    | 21.61                  |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 21.37                 | 21.56                    | 21.50                  |                     |          |  |  |
| 100                | QPSK       | 135     | 69        | 21.35                 | 21.70                    | 21.76                  | 23.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 138       | 21.46                 | 21.60                    | 21.70                  |                     |          |  |  |
| 100                | QPSK       | 270     | 0         | 21.41                 | 21.63                    | 21.64                  | 23.0                | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         | 21.41                 | 21.51                    | 21.51                  | 23.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 21.34                 | 21.60                    | 21.62                  | 23.0                | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         | 20.63                 | 20.77                    | 20.85                  | 22.0                | 1.0      |  |  |
| Channel            |            |         |           | 506200                | 518598                   | 526996                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2641.98                |                     | (dB)     |  |  |
| 80                 | QPSK       | 1       | 1         | 21.35                 | 21.61                    | 21.70                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 507204                | 518598                   | 529998                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     | (dB)     |  |  |
| 80                 | QPSK       | 1       | 1         | 21.33                 | 21.48                    | 21.72                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 508202                | 518598                   | 531000                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     | (dB)     |  |  |
| 70                 | QPSK       | 1       | 1         | 21.32                 | 21.54                    | 21.65                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 509200                | 518598                   | 531996                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     | (dB)     |  |  |
| 60                 | QPSK       | 1       | 1         | 21.40                 | 21.55                    | 21.67                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 504204                | 518598                   | 532998                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2654.98                |                     | (dB)     |  |  |
| 50                 | QPSK       | 1       | 1         | 21.41                 | 21.52                    | 21.60                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 503202                | 518598                   | 534000                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     | (dB)     |  |  |
| 40                 | QPSK       | 1       | 1         | 21.42                 | 21.51                    | 21.64                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 502200                | 518598                   | 535996                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     | (dB)     |  |  |
| 30                 | QPSK       | 1       | 1         | 21.38                 | 21.60                    | 21.71                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 501204                | 518598                   | 535998                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2504.02               | 2592.99                  | 2679.99                |                     | (dB)     |  |  |
| 20                 | QPSK       | 1       | 1         | 21.40                 | 21.54                    | 21.64                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 500700                | 518598                   | 536496                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     | (dB)     |  |  |
| 15                 | QPSK       | 1       | 1         | 21.42                 | 21.58                    | 21.68                  | 23.0                | 0.0      |  |  |
| Channel            |            |         |           | 500202                | 518598                   | 537000                 |                     | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     | (dB)     |  |  |
| 10                 | QPSK       | 1       | 1         | 21.36                 | 21.55                    | 21.71                  | 23.0                | 0.0      |  |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |  |
| 100             | Pl2 BPSK   | 1       | 1         | 17.75                 | 17.75                    | 17.71                  |                     |          |  |  |
| 100             | Pl2 BPSK   | 1       | 137       | 17.71                 | 17.75                    | 17.71                  | 19.0                | 0.0      |  |  |
| 100             | Pl2 BPSK   | 1       | 271       | 17.72                 | 17.73                    | 17.72                  |                     |          |  |  |
| 100             | Pl2 BPSK   | 135     | 0         | 17.75                 | 17.79                    | 17.74                  | 19.0                | 0.0      |  |  |
| 100             | Pl2 BPSK   | 135     | 69        | 17.73                 | 17.72                    | 17.72                  | 19.0                | 0.0      |  |  |
| 100             | Pl2 BPSK   | 135     | 138       | 17.76                 | 17.77                    | 17.67                  |                     |          |  |  |
| 100             | Pl2 BPSK   | 270     | 0         | 17.75                 | 17.76                    | 17.68                  | 19.0                | 0.0      |  |  |
| 100             | QPSK       | 1       | 1         | 17.78                 | 17.82                    | 17.75                  |                     |          |  |  |
| 100             | QPSK       | 1       | 137       | 17.73                 | 17.72                    | 17.72                  | 19.0                | 0.0      |  |  |
| 100             | QPSK       | 1       | 271       | 17.68                 | 17.71                    | 17.72                  |                     |          |  |  |
| 100             | QPSK       | 135     | 0         | 17.68                 | 17.75                    | 17.67                  |                     |          |  |  |
| 100             | QPSK       | 135     | 69        | 17.75                 | 17.60                    | 17.75                  | 19.0                | 0.0      |  |  |
| 100             | QPSK       | 135     | 138       | 17.71                 | 17.71                    | 17.74                  |                     |          |  |  |
| 100             | QPSK       | 270     | 0         | 17.71                 | 17.78                    | 17.67                  | 19.0                | 0.0      |  |  |
| 100             | 16QAM      | 1       | 1         | 17.68                 | 17.77                    | 17.74                  | 19.0                | 0.0      |  |  |
| 100             | 64QAM      | 1       | 1         | 17.74                 | 17.77                    | 17.68                  | 19.0                | 0.0      |  |  |
| 100             | 256QAM     | 1       | 1         | 17.76                 | 17.73                    | 17.76                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 506200                | 518598                   | 526996                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2641.98                |                     | (dB)     |  |  |
| 80              | QPSK       | 1       | 1         | 17.69                 | 17.73                    | 17.71                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.98                |                     | (dB)     |  |  |
| 80              | QPSK       | 1       | 1         | 17.70                 | 17.71                    | 17.70                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 508202                | 518598                   | 531000                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     | (dB)     |  |  |
| 70              | QPSK       | 1       | 1         | 17.67                 | 17.76                    | 17.74                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 509200                | 518598                   | 531996                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     | (dB)     |  |  |
| 60              | QPSK       | 1       | 1         | 17.73                 | 17.78                    | 17.73                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2654.98                |                     | (dB)     |  |  |
| 50              | QPSK       | 1       | 1         | 17.70                 | 17.77                    | 17.71                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     | (dB)     |  |  |
| 40              | QPSK       | 1       | 1         | 17.73                 | 17.73                    | 17.72                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 502200                | 518598                   | 535996                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     | (dB)     |  |  |
| 30              | QPSK       | 1       | 1         | 17.67                 | 17.72                    | 17.76                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2504.02               | 2592.99                  | 2679.99                |                     | (dB)     |  |  |
| 20              | QPSK       | 1       | 1         | 17.76                 | 17.75                    | 17.67                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     | (dB)     |  |  |
| 15              | QPSK       | 1       | 1         | 17.68                 | 17.74                    | 17.68                  | 19.0                | 0.0      |  |  |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 |                     | MPR      |  |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     | (dB)     |  |  |
| 10              | QPSK       | 1       | 1         | 17.68                 | 17.79                    | 17.73                  | 19.0                | 0.0      |  |  |

| FCC_n41 HPUE_Ant 6 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 17.75                 | 17.75                    | 17.71                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 17.71                 | 17.75                    | 17.71                  | 19.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 17.72                 | 17.73                    | 17.72                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 17.75                 | 17.79                    | 17.74                  | 19.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 17.73                 | 17.72                    | 17.72                  | 19.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 17.76                 | 17.77                    | 17.67                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 17.75                 | 17.76                    | 17.68                  | 19.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         | 17.78                 | 17.82                    | 17.75                  |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 17.73                 | 17.72                    | 17.72                  | 19.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 17.68                 | 17.71                    | 17.72                  |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 17.68                 | 17.75                    | 17.67                  |                     |          |  |  |
| 100                | QPSK       | 135     | 69        | 17.75                 | 17.80                    | 17.76                  | 19.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 138       | 17.71                 | 17.71                    | 17.74                  |                     |          |  |  |
| 100                | QPSK       | 270     | 0         | 17.71                 | 17.76                    | 17.67                  | 19.0                | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         | 17.68                 | 17.77                    | 17.74                  | 19.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 17.74                 | 17.77                    | 17.68                  | 19.0                | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         | 17.76                 | 17.77                    | 17.68                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 526098                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2645.98                |                     |          |  |  |
| 50                 | QPSK       | 1       | 1         | 17.69                 | 17.73                    | 17.71                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 507204                | 518598                   | 526998                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2552.04               | 2592.99                  | 2655.98                |                     |          |  |  |
| 80                 | QPSK       | 1       | 1         | 17.70                 | 17.71                    | 17.70                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500202                | 518598                   | 531000                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |  |
| 70                 | QPSK       | 1       | 1         | 17.67                 | 17.78                    | 17.74                  |                     |          |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 531098                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2536                  | 2592.99                  | 2659.98                |                     |          |  |  |
| 60                 | QPSK       | 1       | 1         | 17.73                 | 17.78                    | 17.73                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 532098                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2532.02               | 2592.99                  | 2664.98                |                     |          |  |  |
| 50                 | QPSK       | 1       | 1         | 17.70                 | 17.77                    | 17.71                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 503202                | 518598                   | 534000                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2548.02               | 2592.99                  | 2670                   |                     |          |  |  |
| 40                 | QPSK       | 1       | 1         | 17.73                 | 17.73                    | 17.72                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 536998                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2531                  | 2592.99                  | 2674.98                |                     |          |  |  |
| 30                 | QPSK       | 1       | 1         | 17.67                 | 17.72                    | 17.72                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 501204                | 518598                   | 538998                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2506.02               | 2592.99                  | 2679.98                |                     |          |  |  |
| 20                 | QPSK       | 1       | 1         | 17.76                 | 17.75                    | 17.67                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 539998                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |  |
| 15                 | QPSK       | 1       | 1         | 17.69                 | 17.74                    | 17.69                  | 19.0                | 0.0      |  |  |
| Channel            |            |         |           | 500200                | 518598                   | 537000                 |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 2503.12               | 2592.99                  | 2688                   |                     |          |  |  |
| 10                 | QPSK       | 1       | 1         | 17.68                 | 17.75                    | 17.73                  | 19.0                | 0.0      |  |  |



| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 506202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2546                   |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 21.69                 | 22.00                    | 21.71                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 137       | 21.66                 | 22.00                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 271       | 21.71                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 21.66                 | 22.04                    | 21.67                  | 23.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 69        | 21.77                 | 22.03                    | 21.59                  | 23.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 138       | 21.67                 | 21.98                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 21.75                 | 22.07                    | 21.15                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.74                 | 22.02                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 21.76                 | 22.02                    | 21.71                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 21.66                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.72                 | 22.02                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 21.68                 | 21.98                    | 21.62                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 21.76                 | 21.96                    | 21.66                  | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.64                 | 21.97                    | 21.73                  | 23.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 1.5      |  |
| Channel         |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2544.98                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 21.72                 | 22.00                    | 21.64                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2540.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 21.73                 | 21.93                    | 21.70                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 507202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2555                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 21.78                 | 21.96                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2524                  | 2592.99                  | 2568.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 21.75                 | 21.95                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2564.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 21.71                 | 22.00                    | 21.73                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2570                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 21.64                 | 22.01                    | 21.72                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518598                   | 535996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2574.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 21.69                 | 21.96                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2578.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 21.74                 | 21.90                    | 21.61                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2582.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 21.74                 | 22.04                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2585                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 21.68                 | 22.03                    | 21.72                  | 23.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           | 506202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz)     |            |         |           | 2546.01               | 2592.99                  | 2546                   |                     |          |  |
| 100                 | P12 BPSK   | 1       | 1         | 22.08                 | 22.28                    | 22.01                  |                     |          |  |
| 100                 | P12 BPSK   | 1       | 137       | 22.16                 | 22.28                    | 21.98                  | 23.5                | 0.0      |  |
| 100                 | P12 BPSK   | 1       | 271       | 22.08                 | 22.33                    | 21.97                  |                     |          |  |
| 100                 | P12 BPSK   | 135     | 0         | 22.21                 | 22.37                    | 21.96                  | 23.5                | 0.0      |  |
| 100                 | P12 BPSK   | 135     | 69        | 22.18                 | 22.30                    | 22.05                  | 23.5                | 0.0      |  |
| 100                 | P12 BPSK   | 135     | 138       | 22.21                 | 22.38                    | 22.09                  | 23.5                | 0.0      |  |
| 100                 | QPSK       | 1       | 1         | 22.12                 | 22.42                    | 22.11                  |                     |          |  |
| 100                 | QPSK       | 1       | 137       | 22.21                 | 22.41                    | 22.00                  | 23.5                | 0.0      |  |
| 100                 | QPSK       | 1       | 271       | 22.18                 | 22.34                    | 22.04                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 22.13                 | 22.29                    | 22.02                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 22.10                 | 22.26                    | 22.01                  | 23.5                | 0.0      |  |
| 100                 | QPSK       | 135     | 138       | 22.11                 | 22.34                    | 21.96                  |                     |          |  |
| 100                 | QPSK       | 270     | 0         | 22.21                 | 22.32                    | 22.06                  | 23.5                | 0.0      |  |
| 100                 | 16QAM      | 1       | 1         | 22.11                 | 22.28                    | 22.07                  | 23.5                | 0.0      |  |
| 100                 | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 1.0      |  |
| 100                 | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 2.0      |  |
| Channel             |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2541                  | 2592.99                  | 2544.98                |                     |          |  |
| 90                  | QPSK       | 1       | 1         | 22.21                 | 22.33                    | 21.69                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2536.02               | 2592.99                  | 2540.99                |                     |          |  |
| 80                  | QPSK       | 1       | 1         | 22.10                 | 22.40                    | 22.08                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 507202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2531.01               | 2592.99                  | 2555                   |                     |          |  |
| 70                  | QPSK       | 1       | 1         | 22.13                 | 22.41                    | 22.03                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2524                  | 2592.99                  | 2568.98                |                     |          |  |
| 60                  | QPSK       | 1       | 1         | 22.13                 | 22.35                    | 22.01                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2564.99                |                     |          |  |
| 50                  | QPSK       | 1       | 1         | 22.22                 | 22.33                    | 22.04                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2570                   |                     |          |  |
| 40                  | QPSK       | 1       | 1         | 22.22                 | 22.38                    | 21.98                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 502200                | 518598                   | 535996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2574.98                |                     |          |  |
| 30                  | QPSK       | 1       | 1         | 22.09                 | 22.33                    | 21.98                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2506.02               | 2592.99                  | 2578.99                |                     |          |  |
| 20                  | QPSK       | 1       | 1         | 22.08                 | 22.35                    | 22.02                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2582.48                |                     |          |  |
| 15                  | QPSK       | 1       | 1         | 22.08                 | 22.29                    | 21.67                  | 23.5                | 0.0      |  |
| Channel             |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2585                   |                     |          |  |
| 10                  | QPSK       | 1       | 1         | 22.16                 | 22.41                    | 21.99                  | 23.5                | 0.0      |  |



| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 1       | 1         | 14.66                 | 14.69                    | 14.62                  | 15.5                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 1       | 53        | 14.67                 | 14.69                    | 14.67                  |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 1       | 104       | 14.72                 | 14.74                    | 14.68                  | 15.5                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 50      | 0         | 14.64                 | 14.71                    | 14.64                  |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 50      | 28        | 14.66                 | 14.66                    | 14.61                  | 15.5                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 50      | 56        | 14.71                 | 14.68                    | 14.60                  | 15.5                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 100     | 0         | 14.69                 | 14.66                    | 14.61                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 1         | 14.74                 | 14.76                    | 14.70                  | 15.5                | 0.0      |  |  |  |
| 40               | QPSK       | 1       | 53        | 14.67                 | 14.68                    | 14.59                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 104       | 14.72                 | 14.70                    | 14.63                  | 15.5                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 0         | 14.68                 | 14.69                    | 14.65                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 28        | 14.70                 | 14.75                    | 14.67                  | 15.5                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 56        | 14.67                 | 14.73                    | 14.63                  |                     |          |  |  |  |
| 40               | QPSK       | 100     | 0         | 14.68                 | 14.72                    | 14.65                  | 15.5                | 0.0      |  |  |  |
| 40               | 16QAM      | 1       | 1         | 14.67                 | 14.67                    | 14.68                  | 15.5                | 0.0      |  |  |  |
| 40               | 64QAM      | 1       | 1         | 14.66                 | 14.68                    | 14.59                  | 15.5                | 0.0      |  |  |  |
| 40               | 256QAM     | 1       | 1         | 14.69                 | 14.68                    | 14.65                  | 15.5                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 14.67                 | 14.69                    | 14.66                  | 15.5                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 14.65                 | 14.70                    | 14.64                  | 15.5                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 14.64                 | 14.71                    | 14.59                  | 15.5                | 0.0      |  |  |  |

| Part96_n48_Ant 7 |            |     |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|-----|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]         | Modulation | RB  | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |     |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |     |           |                       |                          |                        |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 1   | 1         | 14.72                 | 14.57                    | 14.33                  | 16.0                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 1   | 53        | 14.75                 | 14.58                    | 14.29                  |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 1   | 104       | 14.74                 | 14.52                    | 14.29                  | 16.0                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 50  | 0         | 14.73                 | 14.53                    | 14.32                  |                     |          |  |  |  |
| 40               | Pi/2 BPSK  | 50  | 28        | 14.68                 | 14.59                    | 14.38                  | 16.0                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 50  | 56        | 14.71                 | 14.59                    | 14.43                  | 16.0                | 0.0      |  |  |  |
| 40               | Pi/2 BPSK  | 100 | 0         | 14.74                 | 14.56                    | 14.37                  |                     |          |  |  |  |
| 40               | QPSK       | 1   | 1         | 14.76                 | 14.60                    | 14.45                  | 16.0                | 0.0      |  |  |  |
| 40               | QPSK       | 1   | 53        | 14.68                 | 14.51                    | 14.42                  |                     |          |  |  |  |
| 40               | QPSK       | 1   | 104       | 14.73                 | 14.55                    | 14.34                  | 16.0                | 0.0      |  |  |  |
| 40               | QPSK       | 50  | 0         | 14.73                 | 14.51                    | 14.27                  |                     |          |  |  |  |
| 40               | QPSK       | 50  | 28        | 14.74                 | 14.57                    | 14.36                  | 16.0                | 0.0      |  |  |  |
| 40               | QPSK       | 50  | 56        | 14.73                 | 14.53                    | 14.24                  |                     |          |  |  |  |
| 40               | QPSK       | 100 | 0         | 14.67                 | 14.59                    | 14.31                  | 16.0                | 0.0      |  |  |  |
| 40               | 16QAM      | 1   | 1         | 14.74                 | 14.56                    | 14.35                  | 16.0                | 0.0      |  |  |  |
| 40               | 64QAM      | 1   | 1         | 14.67                 | 14.48                    | 14.37                  | 16.0                | 0.0      |  |  |  |
| 40               | 256QAM     | 1   | 1         | 14.67                 | 14.60                    | 14.36                  | 16.0                | 0.0      |  |  |  |
| Channel          |            |     |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |     |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1   | 1         | 14.70                 | 14.58                    | 14.39                  | 16.0                | 0.0      |  |  |  |
| Channel          |            |     |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |     |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1   | 1         | 14.70                 | 14.56                    | 14.34                  | 16.0                | 0.0      |  |  |  |
| Channel          |            |     |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |     |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1   | 1         | 14.66                 | 14.51                    | 14.34                  | 16.0                | 0.0      |  |  |  |

| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40                | Pi/2 BPSK  | 1       | 1         | 10.59                 | 10.56                    | 10.61                  | 11.5                | 0.0      |  |  |  |
| 40                | Pi/2 BPSK  | 1       | 53        | 10.53                 | 10.60                    | 10.55                  |                     |          |  |  |  |
| 40                | Pi/2 BPSK  | 1       | 104       | 10.53                 | 10.54                    | 10.56                  | 11.5                | 0.0      |  |  |  |
| 40                | Pi/2 BPSK  | 50      | 0         | 10.62                 | 10.55                    | 10.59                  |                     |          |  |  |  |
| 40                | Pi/2 BPSK  | 50      | 28        | 10.58                 | 10.60                    | 10.61                  | 11.5                | 0.0      |  |  |  |
| 40                | Pi/2 BPSK  | 50      | 56        | 10.59                 | 10.56                    | 10.50                  | 11.5                | 0.0      |  |  |  |
| 40                | Pi/2 BPSK  | 100     | 0         | 10.58                 | 10.62                    | 10.52                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 1         | 10.58                 | 10.63                    | 10.57                  | 11.5                | 0.0      |  |  |  |
| 40                | QPSK       | 1       | 53        | 10.57                 | 10.61                    | 10.48                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 104       | 10.56                 | 10.59                    | 10.52                  | 11.5                | 0.0      |  |  |  |
| 40                | QPSK       | 50      | 0         | 10.53                 | 10.56                    | 10.53                  |                     |          |  |  |  |
| 40                | QPSK       | 50      | 28        | 10.58                 | 10.61                    | 10.57                  | 11.5                | 0.0      |  |  |  |
| 40                | QPSK       | 50      | 56        | 10.55                 | 10.59                    | 10.41                  |                     |          |  |  |  |
| 40                | QPSK       | 100     | 0         | 10.52                 | 10.59                    | 10.55                  | 11.5                | 0.0      |  |  |  |
| 40                | 16QAM      | 1       | 1         | 10.56                 | 10.57                    | 10.53                  | 11.5                | 0.0      |  |  |  |
| 40                | 64QAM      | 1       | 1         | 10.54                 | 10.53                    | 10.51                  | 11.5                | 0.0      |  |  |  |
| 40                | 256QAM     | 1       | 1         | 10.58                 | 10.56                    | 10.61                  | 11.5                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30                | QPSK       | 1       | 1         | 10.51                 | 10.55                    | 10.47                  | 11.5                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20                | QPSK       | 1       | 1         | 10.57                 | 10.55                    | 10.46                  | 11.5                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10                | QPSK       | 1       | 1         | 10.53                 | 10.58                    | 10.55                  | 11.5                | 0.0      |  |  |  |



| Part96_n48_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 630000                | 641666                   | 646332                 | 16.0                | 0.0      |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |
| 40               | PI2 BPSK   | 1       | 1         | 14.66                 | 14.70                    | 14.44                  | 16.0                | 0.0      |
| 40               | PI2 BPSK   | 1       | 53        | 14.62                 | 14.67                    | 14.47                  |                     |          |
| 40               | PI2 BPSK   | 1       | 104       | 14.67                 | 14.72                    | 14.38                  | 16.0                | 0.0      |
| 40               | PI2 BPSK   | 50      | 0         | 14.62                 | 14.71                    | 14.30                  |                     |          |
| 40               | PI2 BPSK   | 50      | 28        | 14.64                 | 14.65                    | 14.33                  | 16.0                | 0.0      |
| 40               | PI2 BPSK   | 50      | 56        | 14.69                 | 14.69                    | 14.35                  | 16.0                | 0.0      |
| 40               | PI2 BPSK   | 100     | 0         | 14.70                 | 14.68                    | 14.40                  |                     |          |
| 40               | QPSK       | 1       | 1         | 14.66                 | 14.73                    | 14.51                  | 16.0                | 0.0      |
| 40               | QPSK       | 1       | 53        | 14.62                 | 14.68                    | 14.39                  |                     |          |
| 40               | QPSK       | 1       | 104       | 14.67                 | 14.71                    | 14.44                  | 16.0                | 0.0      |
| 40               | QPSK       | 50      | 0         | 14.64                 | 14.71                    | 14.35                  |                     |          |
| 40               | QPSK       | 50      | 28        | 14.67                 | 14.72                    | 14.41                  | 16.0                | 0.0      |
| 40               | QPSK       | 50      | 56        | 14.66                 | 14.71                    | 14.38                  |                     |          |
| 40               | QPSK       | 100     | 0         | 14.63                 | 14.68                    | 14.38                  | 16.0                | 0.0      |
| 40               | 16QAM      | 1       | 1         | 14.65                 | 14.65                    | 14.40                  | 16.0                | 0.0      |
| 40               | 64QAM      | 1       | 1         | 14.63                 | 14.65                    | 14.32                  | 16.0                | 0.0      |
| 40               | 256QAM     | 1       | 1         | 14.60                 | 14.65                    | 14.43                  | 16.0                | 0.0      |
| Channel          |            |         |           | 637668                | 641666                   | 646666                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)  |            |         |           | 3693.02               | 3624.99                  | 3694.99                | (dBm)               | (dB)     |
| 30               | QPSK       | 1       | 1         | 14.55                 | 14.64                    | 14.43                  | 16.0                | 0.0      |
| Channel          |            |         |           | 637234                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)  |            |         |           | 3660.01               | 3624.99                  | 3660                   | (dBm)               | (dB)     |
| 20               | QPSK       | 1       | 1         | 14.58                 | 14.65                    | 14.46                  | 16.0                | 0.0      |
| Channel          |            |         |           | 637000                | 641000                   | 646332                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)  |            |         |           | 3555                  | 3624.99                  | 3694.98                | (dBm)               | (dB)     |
| 10               | QPSK       | 1       | 1         | 14.57                 | 14.65                    | 14.40                  | 16.0                | 0.0      |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                | 633332                   | 6499.98                | 17.5                | 0.0      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 16.71                    |                        | 17.5                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 16.72                    |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       |                       | 16.73                    |                        | 17.5                | 0.0      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 16.70                    |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 69        |                       | 16.73                    |                        | 17.5                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 16.65                    |                        |                     |          |
| 100               | PI2 BPSK   | 270     | 0         |                       | 16.72                    |                        | 17.5                | 0.0      |
| 100               | QPSK       | 1       | 1         |                       | 16.75                    |                        |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 16.68                    |                        | 17.5                | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 16.68                    |                        |                     |          |
| 100               | QPSK       | 135     | 0         |                       | 16.70                    |                        | 17.5                | 0.0      |
| 100               | QPSK       | 135     | 69        |                       | 16.75                    |                        |                     |          |
| 100               | QPSK       | 135     | 138       |                       | 16.70                    |                        | 17.5                | 0.0      |
| 100               | QPSK       | 270     | 0         |                       | 16.72                    |                        |                     |          |
| 100               | 16QAM      | 1       | 1         |                       | 16.64                    |                        | 17.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 16.68                    |                        | 17.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 16.63                    |                        | 17.5                | 0.0      |
| Channel           |            |         |           | 633000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |
| 90                | QPSK       | 1       | 1         | 16.65                 | 16.67                    | 16.63                  | 17.5                | 0.0      |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |
| 80                | QPSK       | 1       | 1         | 16.67                 | 16.68                    | 16.72                  | 17.5                | 0.0      |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |
| 70                | QPSK       | 1       | 1         | 16.64                 | 16.63                    | 16.64                  | 17.5                | 0.0      |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3518.99                | (dBm)               | (dB)     |
| 60                | QPSK       | 1       | 1         | 16.68                 | 16.64                    | 16.70                  | 17.5                | 0.0      |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |
| 50                | QPSK       | 1       | 1         | 16.71                 | 16.64                    | 16.63                  | 17.5                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |
| 40                | QPSK       | 1       | 1         | 16.66                 | 16.66                    | 16.69                  | 17.5                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dBm)               | (dB)     |
| 30                | QPSK       | 1       | 1         | 16.68                 | 16.67                    | 16.69                  | 17.5                | 0.0      |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |
| 20                | QPSK       | 1       | 1         | 16.64                 | 16.65                    | 16.64                  | 17.5                | 0.0      |
| Channel           |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dBm)               | (dB)     |
| 15                | QPSK       | 1       | 1         | 16.72                 | 16.70                    | 16.65                  | 17.5                | 0.0      |
| Channel           |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |
| 10                | QPSK       | 1       | 1         | 16.67                 | 16.70                    | 16.65                  | 17.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 16.77                 | 16.83                    | 16.79                  |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 16.82                 | 16.83                    | 16.72                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 16.76                 | 16.81                    | 16.83                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 16.78                 | 16.83                    | 16.69                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 16.82                 | 16.85                    | 16.76                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 16.83                 | 16.84                    | 16.67                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 16.85                 | 16.84                    | 16.72                  |                     |          |
| 100             | QPSK       | 1       | 1         | 16.85                 | 16.87                    | 16.82                  |                     |          |
| 100             | QPSK       | 1       | 137       | 16.80                 | 16.82                    | 16.81                  | 17.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 16.83                 | 16.80                    | 16.75                  |                     |          |
| 100             | QPSK       | 135     | 0         | 16.80                 | 16.79                    | 16.78                  |                     |          |
| 100             | QPSK       | 135     | 69        | 16.77                 | 16.85                    | 16.81                  | 17.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.80                 | 16.81                    | 16.69                  |                     |          |
| 100             | QPSK       | 270     | 0         | 16.77                 | 16.81                    | 16.74                  | 17.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 16.79                 | 16.83                    | 16.78                  | 17.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 16.74                 | 16.85                    | 16.75                  | 17.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 16.78                 | 16.78                    | 16.77                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 16.81                 | 16.85                    | 16.76                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 16.80                 | 16.83                    | 16.76                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 16.78                 | 16.81                    | 16.80                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 16.83                 | 16.80                    | 16.79                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 16.75                 | 16.80                    | 16.73                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 16.80                 | 16.76                    | 16.74                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 16.81                 | 16.79                    | 16.71                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 16.81                 | 16.84                    | 16.78                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 16.80                 | 16.84                    | 16.79                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 16.76                 | 16.77                    | 16.76                  | 17.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 3499.98               | 3533.32                  | 3566.66                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 16.71                    |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 16.72                    |                        | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 16.73                    |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 16.70                    |                        | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 16.73                    |                        | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 16.65                    |                        | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 16.72                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 16.74                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 16.68                    |                        | 17.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 16.68                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.70                    |                        | 17.5                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 16.73                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 16.70                    |                        | 17.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 16.72                    |                        | 17.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 16.64                    |                        | 17.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 16.68                    |                        | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 16.68                 | 16.67                    | 16.63                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 16.67                 | 16.66                    | 16.72                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 16.64                 | 16.63                    | 16.64                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 16.68                 | 16.64                    | 16.70                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 16.71                 | 16.64                    | 16.63                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 16.66                 | 16.66                    | 16.69                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 16.68                 | 16.67                    | 16.69                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 16.64                 | 16.66                    | 16.64                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 16.72                 | 16.70                    | 16.66                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 16.67                 | 16.70                    | 16.65                  | 17.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 16.77                 | 16.83                    | 16.79                  |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 16.82                 | 16.83                    | 16.72                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 16.76                 | 16.81                    | 16.83                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 16.78                 | 16.83                    | 16.69                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 16.82                 | 16.85                    | 16.76                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 16.83                 | 16.84                    | 16.67                  | 17.5                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 16.85                 | 16.84                    | 16.72                  |                     |          |
| 100             | QPSK       | 1       | 1         | 16.85                 | 16.87                    | 16.82                  |                     |          |
| 100             | QPSK       | 1       | 137       | 16.80                 | 16.82                    | 16.81                  | 17.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 16.83                 | 16.80                    | 16.75                  |                     |          |
| 100             | QPSK       | 135     | 0         | 16.80                 | 16.79                    | 16.78                  |                     |          |
| 100             | QPSK       | 135     | 69        | 16.77                 | 16.85                    | 16.81                  | 17.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.80                 | 16.81                    | 16.69                  |                     |          |
| 100             | QPSK       | 270     | 0         | 16.77                 | 16.81                    | 16.74                  | 17.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 16.73                 | 16.83                    | 16.78                  | 17.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 16.74                 | 16.85                    | 16.75                  | 17.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 16.78                 | 16.78                    | 16.77                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 16.81                 | 16.85                    | 16.76                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 16.80                 | 16.83                    | 16.76                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 16.76                 | 16.81                    | 16.80                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 16.83                 | 16.80                    | 16.79                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 16.76                 | 16.80                    | 16.73                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 16.80                 | 16.76                    | 16.74                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 16.81                 | 16.79                    | 16.71                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 16.81                 | 16.84                    | 16.78                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 16.80                 | 16.84                    | 16.79                  | 17.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 16.76                 | 16.77                    | 16.76                  | 17.5                | 0.0      |



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|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |          |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 1         | 15.99                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 15.98                 |                          |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 271       | 15.99                 |                          |                        |                     |          |     |
| 100               | Pl2 BPSK   | 135     | 0         | 16.02                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 135     | 69        | 15.98                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 16.01                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 15.98                 |                          |                        |                     |          |     |
| 100               | QPSK       | 1       | 1         | 16.03                 |                          |                        |                     |          |     |
| 100               | QPSK       | 1       | 137       | 16.03                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | QPSK       | 1       | 271       | 16.01                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | QPSK       | 135     | 0         | 15.98                 |                          |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        | 16.03                 |                          |                        |                     |          |     |
| 100               | QPSK       | 135     | 138       | 15.98                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | QPSK       | 270     | 0         | 16.01                 |                          |                        |                     |          |     |
| 100               | 16QAM      | 1       | 1         | 15.98                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | 64QAM      | 1       | 1         | 15.95                 |                          |                        |                     | 17.0     | 0.0 |
| 100               | 256QAM     | 1       | 1         | 16.02                 |                          |                        |                     | 17.0     | 0.0 |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                |          |     |
| 80                | QPSK       | 1       | 1         | 15.94                 | 15.98                    | 15.99                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |     |
| 80                | QPSK       | 1       | 1         | 15.97                 | 16.03                    | 16.00                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |     |
| 70                | QPSK       | 1       | 1         | 15.95                 | 15.95                    | 16.01                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3518.98                | (dB)                |          |     |
| 60                | QPSK       | 1       | 1         | 15.95                 | 16.01                    | 15.98                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |     |
| 50                | QPSK       | 1       | 1         | 15.98                 | 16.02                    | 15.96                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |     |
| 40                | QPSK       | 1       | 1         | 15.94                 | 15.94                    | 16.01                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dB)                |          |     |
| 30                | QPSK       | 1       | 1         | 15.95                 | 15.96                    | 15.94                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |     |
| 20                | QPSK       | 1       | 1         | 15.94                 | 15.97                    | 16.00                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |     |
| 15                | QPSK       | 1       | 1         | 16.03                 | 15.98                    | 15.99                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 630000                | 633332                   | 636700                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |     |
| 10                | QPSK       | 1       | 1         | 15.96                 | 16.02                    | 15.98                  | 17.0                | 0.0      |     |

| Part27O_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 650000                |                          | 3600                   |                     |          |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 1         | 15.94                 | 15.94                    | 15.99                  |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 16.01                 | 16.01                    | 16.01                  |                     |          |     |
| 100               | Pl2 BPSK   | 1       | 271       | 15.98                 | 15.95                    | 15.94                  |                     |          |     |
| 100               | Pl2 BPSK   | 135     | 0         | 15.98                 | 15.94                    | 15.96                  |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 135     | 69        | 16.02                 | 15.98                    | 15.95                  |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 16.02                 | 15.97                    | 15.97                  |                     | 17.0     | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 16.02                 | 15.94                    | 15.97                  |                     |          |     |
| 100               | QPSK       | 1       | 1         | 15.01                 | 16.04                    | 16.02                  |                     |          |     |
| 100               | QPSK       | 1       | 137       | 15.96                 | 15.98                    | 16.00                  |                     | 17.0     | 0.0 |
| 100               | QPSK       | 1       | 271       | 15.98                 | 16.00                    | 16.01                  |                     |          |     |
| 100               | QPSK       | 135     | 0         | 15.97                 | 15.98                    | 15.95                  |                     |          |     |
| 100               | QPSK       | 135     | 69        | 15.01                 | 16.02                    | 15.98                  |                     | 17.0     | 0.0 |
| 100               | QPSK       | 135     | 138       | 15.95                 | 15.97                    | 15.90                  |                     | 17.0     | 0.0 |
| 100               | QPSK       | 270     | 0         | 15.95                 | 16.00                    | 15.96                  |                     |          |     |
| 100               | 16QAM      | 1       | 1         | 15.96                 | 16.00                    | 16.02                  |                     | 17.0     | 0.0 |
| 100               | 64QAM      | 1       | 1         | 15.96                 | 15.96                    | 15.98                  |                     | 17.0     | 0.0 |
| 100               | 256QAM     | 1       | 1         | 16.01                 | 15.99                    | 15.98                  |                     | 17.0     | 0.0 |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3742.02               | 3740                     | 3741.98                | (dB)                |          |     |
| 80                | QPSK       | 1       | 1         | 15.96                 | 15.96                    | 15.96                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3849.98                | (dB)                |          |     |
| 80                | QPSK       | 1       | 1         | 15.91                 | 16.02                    | 15.96                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | (dB)                |          |     |
| 70                | QPSK       | 1       | 1         | 15.98                 | 15.99                    | 15.93                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3732.02               | 3840                     | 3841.98                | (dB)                |          |     |
| 60                | QPSK       | 1       | 1         | 15.98                 | 16.00                    | 15.99                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3941.98                | (dB)                |          |     |
| 50                | QPSK       | 1       | 1         | 15.92                 | 15.93                    | 15.93                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | (dB)                |          |     |
| 40                | QPSK       | 1       | 1         | 15.95                 | 15.97                    | 16.00                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3941.98                | (dB)                |          |     |
| 30                | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.96                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3949.98                | (dB)                |          |     |
| 20                | QPSK       | 1       | 1         | 15.92                 | 15.97                    | 15.94                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | (dB)                |          |     |
| 15                | QPSK       | 1       | 1         | 15.98                 | 15.94                    | 15.96                  | 17.0                | 0.0      |     |
| Channel           |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR      |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   | (dB)                |          |     |
| 10                | QPSK       | 1       | 1         | 15.99                 | 16.02                    | 15.96                  | 17.0                | 0.0      |     |

| Part27Q_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |          |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 1         | 15.99                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | Pl2 BPSK   | 1       | 137       | 15.98                 |                          |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 1       | 271       | 15.99                 |                          |                        |                     |          |     |
| 100                    | Pl2 BPSK   | 135     | 0         | 16.02                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 69        | 15.98                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 138       | 16.01                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | Pl2 BPSK   | 270     | 0         | 16.03                 |                          |                        |                     |          |     |
| 100                    | QPSK       | 1       | 1         | 16.05                 |                          |                        |                     |          |     |
| 100                    | QPSK       | 1       | 137       | 16.03                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | QPSK       | 1       | 271       | 16.01                 |                          |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         | 15.98                 |                          |                        |                     |          |     |
| 100                    | QPSK       | 135     | 69        | 16.03                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | QPSK       | 135     | 138       | 15.98                 |                          |                        |                     |          |     |
| 100                    | QPSK       | 270     | 0         | 16.01                 |                          |                        |                     |          |     |
| 100                    | 16QAM      | 1       | 1         | 15.98                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | 64QAM      | 1       | 1         | 15.95                 |                          |                        |                     | 17.0     | 0.0 |
| 100                    | 256QAM     | 1       | 1         | 16.02                 |                          |                        |                     | 17.0     | 0.0 |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                |          |     |
| 90                     | QPSK       | 1       | 1         | 15.94                 | 15.98                    | 15.99                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |     |
| 80                     | QPSK       | 1       | 1         | 15.97                 | 16.03                    | 16.00                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3495.01               | 3499.98                  | 3514.98                | (dB)                |          |     |
| 70                     | QPSK       | 1       | 1         | 15.97                 | 15.99                    | 16.01                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3490                  | 3499.98                  | 3519.99                | (dBm)               |          |     |
| 60                     | QPSK       | 1       | 1         | 15.95                 | 16.01                    | 15.98                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               |          |     |
| 50                     | QPSK       | 1       | 1         | 15.98                 | 16.02                    | 15.98                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               |          |     |
| 40                     | QPSK       | 1       | 1         | 15.94                 | 15.94                    | 16.01                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 631000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3450                  | 3499.98                  | 3524.99                | (dBm)               |          |     |
| 30                     | QPSK       | 1       | 1         | 15.95                 | 15.95                    | 15.94                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3405.02               | 3499.98                  | 3540                   | (dBm)               |          |     |
| 20                     | QPSK       | 1       | 1         | 15.94                 | 15.97                    | 16.00                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 3400.01               | 633332                   | 637000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3400.01               | 3499.98                  | 3542.99                | (dBm)               |          |     |
| 15                     | QPSK       | 1       | 1         | 16.03                 | 15.95                    | 15.99                  | 17.0                | 0.0      |     |
| Channel                |            |         |           | 632332                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3463.01               | 3499.98                  | 3544.98                | (dBm)               |          |     |
| 10                     | QPSK       | 1       | 1         | 15.96                 | 16.02                    | 15.98                  | 17.0                | 0.0      |     |



| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
|                        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 15.94                 | 15.94                    | 15.99                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 16.01                 | 16.01                    | 16.01                  | 17.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 15.96                 | 15.96                    | 15.94                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 15.98                 | 15.94                    | 15.99                  | 17.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 16.02                 | 15.98                    | 15.95                  | 17.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 16.02                 | 15.97                    | 15.97                  | 17.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 16.02                 | 15.94                    | 15.97                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 15.91                 | 16.04                    | 16.02                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 15.96                 | 15.98                    | 16.00                  | 17.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 15.98                 | 16.00                    | 16.01                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 15.97                 | 15.98                    | 15.95                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        | 15.91                 | 16.02                    | 15.95                  | 17.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 15.95                 | 15.97                    | 15.90                  |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 15.95                 | 16.00                    | 15.96                  | 17.0                | 0.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 15.96                 | 16.00                    | 16.02                  | 17.0                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 15.98                 | 15.99                    | 15.98                  | 17.0                | 0.0      |  |  |
| 100                    | 256QAM     | 1       | 1         | 16.01                 | 15.99                    | 15.98                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3742.02               | 3840                     | 3924.98                | (dBm)               | (dB)     |  |  |
| 80                     | QPSK       | 1       | 1         | 15.95                 | 15.95                    | 15.95                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3745.01               | 3840                     | 3939.99                | (dBm)               | (dB)     |  |  |
| 80                     | QPSK       | 1       | 1         | 15.91                 | 16.02                    | 15.96                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3735                  | 3840                     | 3945                   | (dBm)               | (dB)     |  |  |
| 70                     | QPSK       | 1       | 1         | 15.98                 | 15.99                    | 15.93                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3725.02               | 3840                     | 3924.98                | (dBm)               | (dB)     |  |  |
| 60                     | QPSK       | 1       | 1         | 15.98                 | 16.00                    | 15.99                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3725.01               | 3840                     | 3924.98                | (dBm)               | (dB)     |  |  |
| 50                     | QPSK       | 1       | 1         | 15.92                 | 15.93                    | 15.93                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3720                  | 3840                     | 3960                   | (dBm)               | (dB)     |  |  |
| 40                     | QPSK       | 1       | 1         | 15.95                 | 15.97                    | 16.00                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3715.02               | 3840                     | 3924.98                | (dBm)               | (dB)     |  |  |
| 30                     | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.96                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3713.01               | 3840                     | 3925.99                | (dBm)               | (dB)     |  |  |
| 20                     | QPSK       | 1       | 1         | 15.92                 | 15.97                    | 15.94                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3707.52               | 3840                     | 3924.48                | (dBm)               | (dB)     |  |  |
| 15                     | QPSK       | 1       | 1         | 15.96                 | 15.94                    | 15.96                  | 17.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 662000                 | Tune-up limit (dBm) | MPR      |  |  |
|                        |            |         |           | 3705                  | 3840                     | 3975                   | (dBm)               | (dB)     |  |  |
| 10                     | QPSK       | 1       | 1         | 15.99                 | 16.02                    | 15.99                  | 17.0                | 0.0      |  |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 63900                 | 63932                    | 64998                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 11.60                    |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 11.61                    |                        | 12.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 11.63                    |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 11.69                    |                        | 12.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 11.69                    |                        | 12.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 11.65                    |                        | 12.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 11.66                    |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 1         |                       | 11.70                    |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 137       |                       | 11.64                    |                        | 12.5                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       |                       | 11.68                    |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 0         |                       | 11.65                    |                        | 12.5                | 0.0      |  |  |
| 100                | QPSK       | 135     | 69        |                       | 11.65                    |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 138       |                       | 11.66                    |                        |                     |          |  |  |
| 100                | QPSK       | 270     | 0         |                       | 11.65                    |                        | 12.5                | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         |                       | 11.64                    |                        | 12.5                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         |                       | 11.66                    |                        | 12.5                | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         |                       | 11.63                    |                        | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 639000                | 639332                   | 639966                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |  |  |
| 90                 | QPSK       | 1       | 1         | 11.68                 | 11.67                    | 11.61                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |  |
| 80                 | QPSK       | 1       | 1         | 11.65                 | 11.63                    | 11.62                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |  |
| 70                 | QPSK       | 1       | 1         | 11.66                 | 11.65                    | 11.66                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3480                  | 3499.98                  | 3518.98                | (dBm)               | (dB)     |  |  |
| 60                 | QPSK       | 1       | 1         | 11.61                 | 11.65                    | 11.64                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |  |
| 50                 | QPSK       | 1       | 1         | 11.68                 | 11.65                    | 11.61                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |  |
| 40                 | QPSK       | 1       | 1         | 11.63                 | 11.66                    | 11.63                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |  |
| 30                 | QPSK       | 1       | 1         | 11.61                 | 11.60                    | 11.65                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |  |
| 20                 | QPSK       | 1       | 1         | 11.65                 | 11.60                    | 11.67                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630300                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |  |
| 15                 | QPSK       | 1       | 1         | 11.68                 | 11.67                    | 11.67                  | 12.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR      |  |  |
|                    |            |         |           | 3454.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |  |
| 10                 | QPSK       | 1       | 1         | 11.66                 | 11.59                    | 11.67                  | 12.5                | 0.0      |  |  |

| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |                         |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-------------------------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                |     |
| Channel                 |            |         |           | 633332                |                          | 3499.98                |                     |                         |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 11.60                    |                        |                     | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 11.61                    |                        |                     |                         |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 11.63                    |                        |                     | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 11.69                    |                        |                     |                         |     |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 11.69                    |                        | 12.5                | 0.0                     |     |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 11.65                    |                        |                     | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 11.66                    |                        |                     |                         |     |
| 100                     | QPSK       | 1       | 1         |                       | 11.70                    |                        |                     | 12.5                    | 0.0 |
| 100                     | QPSK       | 1       | 137       |                       | 11.64                    |                        |                     |                         |     |
| 100                     | QPSK       | 1       | 271       |                       | 11.68                    |                        |                     | 12.5                    | 0.0 |
| 100                     | QPSK       | 135     | 0         |                       | 11.65                    |                        |                     |                         |     |
| 100                     | QPSK       | 135     | 69        |                       | 11.66                    |                        |                     | 12.5                    | 0.0 |
| 100                     | QPSK       | 135     | 138       |                       | 11.66                    |                        |                     |                         |     |
| 100                     | QPSK       | 270     | 0         |                       | 11.65                    |                        | 12.5                | 0.0                     |     |
| 100                     | 16QAM      | 1       | 1         |                       | 11.64                    |                        | 12.5                | 0.0                     |     |
| 100                     | 64QAM      | 1       | 1         |                       | 11.66                    |                        | 12.5                | 0.0                     |     |
| 100                     | 256QAM     | 1       | 1         |                       | 11.63                    |                        | 12.5                | 0.0                     |     |
| Channel                 |            |         |           | 633000                |                          | 633668                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 80                      | QPSK       | 1       | 1         |                       | 11.69                    | 11.67                  | 11.61               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 632668                |                          | 633332                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 80                      | QPSK       | 1       | 1         |                       | 11.65                    | 11.63                  | 11.62               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 632332                |                          | 633000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 70                      | QPSK       | 1       | 1         |                       | 11.65                    | 11.65                  | 11.66               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 60                      | QPSK       | 1       | 1         |                       | 11.61                    | 11.65                  | 11.64               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 631668                |                          | 633332                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 50                      | QPSK       | 1       | 1         |                       | 11.69                    | 11.65                  | 11.61               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 631332                |                          | 633000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 40                      | QPSK       | 1       | 1         |                       | 11.63                    | 11.66                  | 11.63               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 30                      | QPSK       | 1       | 1         |                       | 11.61                    | 11.60                  | 11.65               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 630668                |                          | 633000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 20                      | QPSK       | 1       | 1         |                       | 11.65                    | 11.60                  | 11.67               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 630332                |                          | 633668                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 15                      | QPSK       | 1       | 1         |                       | 11.68                    | 11.67                  | 11.67               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 10                      | QPSK       | 1       | 1         |                       | 11.66                    | 11.59                  | 11.67               | 12.5                    | 0.0 |

| Part27O_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |                         |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-------------------------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                |     |
| Channel                 |            |         |           | 650000                |                          | 660000                 |                     |                         |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 11.31                    | 11.34                  | 11.17               | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 11.30                    | 11.35                  | 11.17               |                         |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 11.33                    | 11.29                  | 11.19               | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 11.30                    | 11.26                  | 11.21               |                         |     |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 11.31                    | 11.30                  | 11.34               | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 11.26                    | 11.31                  | 11.20               | 12.5                    | 0.0 |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 11.34                    | 11.31                  | 11.24               |                         |     |
| 100                     | QPSK       | 1       | 1         |                       | 11.36                    | 11.35                  | 11.33               | 12.5                    | 0.0 |
| 100                     | QPSK       | 1       | 137       |                       | 11.28                    | 11.33                  | 11.33               |                         |     |
| 100                     | QPSK       | 1       | 271       |                       | 11.29                    | 11.28                  | 11.21               | 12.5                    | 0.0 |
| 100                     | QPSK       | 135     | 0         |                       | 11.31                    | 11.28                  | 11.25               |                         |     |
| 100                     | QPSK       | 135     | 69        |                       | 11.35                    | 11.35                  | 11.25               | 12.5                    | 0.0 |
| 100                     | QPSK       | 135     | 138       |                       | 11.26                    | 11.29                  | 11.26               |                         |     |
| 100                     | QPSK       | 270     | 0         |                       | 11.34                    | 11.28                  | 11.28               | 12.5                    | 0.0 |
| 100                     | 16QAM      | 1       | 1         |                       | 11.30                    | 11.33                  | 11.30               | 12.5                    | 0.0 |
| 100                     | 64QAM      | 1       | 1         |                       | 11.35                    | 11.33                  | 11.23               | 12.5                    | 0.0 |
| 100                     | 256QAM     | 1       | 1         |                       | 11.29                    | 11.32                  | 11.23               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 649668                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 90                      | QPSK       | 1       | 1         |                       | 11.29                    | 11.30                  | 11.23               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 649332                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 80                      | QPSK       | 1       | 1         |                       | 11.31                    | 11.31                  | 11.26               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 649000                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 70                      | QPSK       | 1       | 1         |                       | 11.32                    | 11.27                  | 11.24               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 648668                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 60                      | QPSK       | 1       | 1         |                       | 11.29                    | 11.27                  | 11.31               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 648334                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 50                      | QPSK       | 1       | 1         |                       | 11.34                    | 11.29                  | 11.26               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 648000                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 40                      | QPSK       | 1       | 1         |                       | 11.26                    | 11.30                  | 11.31               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 647668                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 30                      | QPSK       | 1       | 1         |                       | 11.33                    | 11.33                  | 11.22               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 647334                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 20                      | QPSK       | 1       | 1         |                       | 11.33                    | 11.30                  | 11.28               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 647000                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 15                      | QPSK       | 1       | 1         |                       | 11.30                    | 11.31                  | 11.27               | 12.5                    | 0.0 |
| Channel                 |            |         |           | 646668                |                          | 660000                 |                     | Tune-up limit (dBm) MPR |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |                         |     |
| 10                      | QPSK       | 1       | 1         |                       | 11.30                    | 11.32                  | 11.30               | 12.5                    | 0.0 |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |          |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 13.95                    |                        | 15.0                | 0.0                 |          |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 13.91                    |                        |                     |                     |          |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 13.89                    |                        | 15.0                | 0.0                 |          |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 13.88                    |                        |                     |                     |          |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 13.89                    |                        | 15.0                | 0.0                 |          |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 13.95                    |                        | 15.0                | 0.0                 |          |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 13.86                    |                        |                     |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 13.95                    |                        | 15.0                | 0.0                 |          |
| 100               | QPSK       | 1       | 137       |                       | 13.92                    |                        |                     |                     |          |
| 100               | QPSK       | 1       | 271       |                       | 13.94                    |                        | 15.0                | 0.0                 |          |
| 100               | QPSK       | 135     | 0         |                       | 13.91                    |                        |                     |                     |          |
| 100               | QPSK       | 135     | 69        |                       | 13.95                    |                        | 15.0                | 0.0                 |          |
| 100               | QPSK       | 135     | 138       |                       | 13.91                    |                        | 15.0                | 0.0                 |          |
| 100               | QPSK       | 270     | 0         |                       | 13.86                    |                        |                     |                     |          |
| 100               | 16QAM      | 1       | 1         |                       | 13.91                    |                        | 15.0                | 0.0                 |          |
| 100               | 64QAM      | 1       | 1         |                       | 13.96                    |                        | 15.0                | 0.0                 |          |
| 100               | 256QAM     | 1       | 1         |                       | 13.93                    |                        | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 633000                |                          | 3499.98                |                     |                     |          |
| 50                | QPSK       | 1       | 1         | 13.94                 | 13.89                    | 13.86                  | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel           |            |         |           | 632668                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 80                | QPSK       | 1       | 1         | 13.87                 | 13.88                    | 13.90                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 632334                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3486.01               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 70                | QPSK       | 1       | 1         | 13.84                 | 13.91                    | 13.93                  | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel           |            |         |           | 632000                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3486                  |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 60                | QPSK       | 1       | 1         | 13.86                 | 13.89                    | 13.92                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 631668                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3475.02               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 50                | QPSK       | 1       | 1         | 13.89                 | 13.88                    | 13.92                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 631334                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3470.24               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 40                | QPSK       | 1       | 1         | 13.86                 | 13.93                    | 13.93                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 631000                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3460                  |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 30                | QPSK       | 1       | 1         | 13.90                 | 13.91                    | 13.88                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 630668                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3460.02               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 20                | QPSK       | 1       | 1         | 13.94                 | 13.86                    | 13.85                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 630334                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3457.5                |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 15                | QPSK       | 1       | 1         | 13.93                 | 13.87                    | 13.88                  | 15.0                | 0.0                 |          |
| Channel           |            |         |           | 630000                |                          | 3499.98                |                     |                     |          |
| Frequency (MHz)   |            |         |           | 3455.01               |                          | 3499.98                |                     | Tune-up limit (dBm) | MPR (dB) |
| 10                | QPSK       | 1       | 1         | 13.92                 | 13.86                    | 13.86                  | 15.0                | 0.0                 |          |



| Part270_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 1         | 13.37                 | 13.40                    | 13.41                  | 15.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 1       | 137       | 13.34                 | 13.47                    | 13.48                  |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 271       | 13.35                 | 13.47                    | 13.33                  |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 0         | 13.36                 | 13.47                    | 13.48                  | 15.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 69        | 13.28                 | 13.48                    | 13.42                  | 15.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 138       | 13.29                 | 13.48                    | 13.46                  | 15.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 270     | 0         | 13.32                 | 13.42                    | 13.44                  |                     |          |  |  |
| 100               | QPSK       | 1       | 1         | 13.38                 | 13.50                    | 13.41                  |                     |          |  |  |
| 100               | QPSK       | 1       | 137       | 13.29                 | 13.41                    | 13.41                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 271       | 13.34                 | 13.47                    | 13.34                  |                     |          |  |  |
| 100               | QPSK       | 135     | 0         | 13.37                 | 13.43                    | 13.43                  |                     |          |  |  |
| 100               | QPSK       | 135     | 69        | 13.36                 | 13.47                    | 13.46                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 138       | 13.31                 | 13.41                    | 13.43                  |                     |          |  |  |
| 100               | QPSK       | 270     | 0         | 13.33                 | 13.43                    | 13.40                  |                     |          |  |  |
| 100               | 16QAM      | 1       | 1         | 13.34                 | 13.46                    | 13.37                  | 15.0                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         | 13.26                 | 13.43                    | 13.46                  | 15.0                | 0.0      |  |  |
| 100               | 256QAM     | 1       | 1         | 13.30                 | 13.40                    | 13.47                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649668                | 650000                   | 662332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3840                     | 3934.98                |                     |          |  |  |
| 80                | QPSK       | 1       | 1         | 13.32                 | 13.45                    | 13.41                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648334                | 650000                   | 662666                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |  |
| 80                | QPSK       | 1       | 1         | 13.37                 | 13.46                    | 13.42                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 650000                | 650000                   | 662000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                | QPSK       | 1       | 1         | 13.32                 | 13.39                    | 13.35                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648668                | 650000                   | 663332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3724.02               | 3840                     | 3944.98                |                     |          |  |  |
| 60                | QPSK       | 1       | 1         | 13.31                 | 13.47                    | 13.41                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648334                | 650000                   | 663666                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3944.99                |                     |          |  |  |
| 50                | QPSK       | 1       | 1         | 13.30                 | 13.48                    | 13.42                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648000                | 650000                   | 664000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                | QPSK       | 1       | 1         | 13.29                 | 13.43                    | 13.41                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647668                | 650000                   | 664332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3954.98                |                     |          |  |  |
| 30                | QPSK       | 1       | 1         | 13.30                 | 13.41                    | 13.35                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647334                | 650000                   | 664666                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3713.01               | 3840                     | 3956.99                |                     |          |  |  |
| 20                | QPSK       | 1       | 1         | 13.29                 | 13.47                    | 13.37                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647168                | 650000                   | 664832                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |  |
| 15                | QPSK       | 1       | 1         | 13.30                 | 13.41                    | 13.42                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647000                | 650000                   | 665000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                | QPSK       | 1       | 1         | 13.35                 | 13.41                    | 13.34                  | 15.0                | 0.0      |  |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           | 639000                | 639332                   | 649998                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3469.98               |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 13.95                    |                        | 15.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 13.91                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 13.89                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 13.88                    |                        | 15.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 13.89                    |                        | 15.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 13.95                    |                        | 15.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 13.86                    |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         |                       | 13.96                    |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       |                       | 13.92                    |                        | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       |                       | 13.94                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         |                       | 13.91                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        |                       | 13.95                    |                        | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       |                       | 13.91                    |                        |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         |                       | 13.86                    |                        |                     |          |  |  |
| 100                    | 16QAM      | 1       | 1         |                       | 13.91                    |                        | 15.0                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         |                       | 13.86                    |                        | 15.0                | 0.0      |  |  |
| 100                    | 256QAM     | 1       | 1         |                       | 13.93                    |                        | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 639000                | 639332                   | 639666                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3469.98               | 3474.98                  |                        |                     |          |  |  |
| 90                     | QPSK       | 1       | 1         | 13.94                 | 13.89                    | 13.87                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 632668                | 639332                   | 639600                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3469.98                  | 3510                   |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 13.87                 | 13.88                    | 13.90                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 632334                | 639332                   | 639100                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3465.01               | 3469.98                  | 3514.98                |                     |          |  |  |
| 70                     | QPSK       | 1       | 1         | 13.94                 | 13.93                    | 13.93                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 632000                | 639332                   | 639666                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3460                  | 3469.98                  | 3518.98                |                     |          |  |  |
| 60                     | QPSK       | 1       | 1         | 13.86                 | 13.89                    | 13.92                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 631668                | 639332                   | 639000                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3469.98                  | 3525                   |                     |          |  |  |
| 50                     | QPSK       | 1       | 1         | 13.89                 | 13.88                    | 13.92                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 631334                | 639332                   | 639332                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3469.98                  | 3529.98                |                     |          |  |  |
| 40                     | QPSK       | 1       | 1         | 13.86                 | 13.93                    | 13.93                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 631000                | 639332                   | 639666                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3469.98                  | 3534.98                |                     |          |  |  |
| 30                     | QPSK       | 1       | 1         | 13.90                 | 13.91                    | 13.88                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 630668                | 639332                   | 639000                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3469.98                  | 3540                   |                     |          |  |  |
| 20                     | QPSK       | 1       | 1         | 13.94                 | 13.96                    | 13.85                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 630300                | 639332                   | 639168                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3469.98                  | 3542.48                |                     |          |  |  |
| 15                     | QPSK       | 1       | 1         | 13.93                 | 13.87                    | 13.88                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 630334                | 639332                   | 639332                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3469.98                  | 3544.98                |                     |          |  |  |
| 10                     | QPSK       | 1       | 1         | 13.92                 | 13.86                    | 13.86                  | 15.0                | 0.0      |  |  |

| Part270_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |
| Channel                |            |         |           | 650000                | 650000                   | 662000                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 13.37                 | 13.40                    | 13.41                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 13.34                 | 13.47                    | 13.48                  |                     |          |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 13.35                 | 13.47                    | 13.33                  |                     |          |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 13.36                 | 13.47                    | 13.48                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 13.28                 | 13.48                    | 13.42                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 13.29                 | 13.48                    | 13.46                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 13.32                 | 13.42                    | 13.44                  |                     |          |  |  |  |  |  |  |
| 100                    | QPSK       | 1       | 1         | 13.38                 | 13.50                    | 13.41                  |                     |          |  |  |  |  |  |  |
| 100                    | QPSK       | 1       | 137       | 13.29                 | 13.41                    | 13.41                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | QPSK       | 1       | 271       | 13.34                 | 13.47                    | 13.34                  |                     |          |  |  |  |  |  |  |
| 100                    | QPSK       | 135     | 0         | 13.37                 | 13.43                    | 13.43                  |                     |          |  |  |  |  |  |  |
| 100                    | QPSK       | 135     | 69        | 13.36                 | 13.47                    | 13.46                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | QPSK       | 135     | 138       | 13.31                 | 13.41                    | 13.43                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | QPSK       | 270     | 0         | 13.33                 | 13.43                    | 13.40                  |                     |          |  |  |  |  |  |  |
| 100                    | 16QAM      | 1       | 1         | 13.34                 | 13.46                    | 13.37                  |                     |          |  |  |  |  |  |  |
| 100                    | 64QAM      | 1       | 1         | 13.26                 | 13.43                    | 13.46                  | 15.0                | 0.0      |  |  |  |  |  |  |
| 100                    | 256QAM     | 1       | 1         | 13.30                 | 13.40                    | 13.47                  |                     |          |  |  |  |  |  |  |
| Channel                |            |         |           | 649698                | 650000                   | 662232                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3840                  | 3930                     | 4024.8                 |                     |          |  |  |  |  |  |  |
| 90                     | QPSK       | 1       | 1         | 13.32                 | 13.45                    | 13.41                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 648334                | 650000                   | 662698                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3840                  | 3930                     | 4024.8                 |                     |          |  |  |  |  |  |  |
| 90                     | QPSK       | 1       | 1         | 13.37                 | 13.46                    | 13.42                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 649000                | 650000                   | 663000                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3930                   |                     |          |  |  |  |  |  |  |
| 70                     | QPSK       | 1       | 1         | 13.32                 | 13.50                    | 13.35                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 646698                | 650000                   | 663332                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |  |  |  |  |  |
| 60                     | QPSK       | 1       | 1         | 13.31                 | 13.47                    | 13.41                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 645332                | 650000                   | 664000                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3840                     | 3965.99                |                     |          |  |  |  |  |  |  |
| 50                     | QPSK       | 1       | 1         | 13.30                 | 13.46                    | 13.42                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 644000                | 650000                   | 664000                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |  |  |  |  |
| 40                     | QPSK       | 1       | 1         | 13.29                 | 13.43                    | 13.41                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 642698                | 650000                   | 664532                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3954.98                |                     |          |  |  |  |  |  |  |
| 30                     | QPSK       | 1       | 1         | 13.30                 | 13.41                    | 13.36                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 641334                | 650000                   | 664698                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |  |  |  |  |  |
| 20                     | QPSK       | 1       | 1         | 13.29                 | 13.47                    | 13.37                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 640000                | 650000                   | 664832                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3705.02               | 3840                     | 3972.48                |                     |          |  |  |  |  |  |  |
| 15                     | QPSK       | 1       | 1         | 13.30                 | 13.41                    | 13.42                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           | 647000                | 650000                   | 665000                 |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3840                     | 3972                   |                     |          |  |  |  |  |  |  |
| 10                     | QPSK       | 1       | 1         | 13.35                 | 13.41                    | 13.34                  | 15.0                | 0.0      |  |  |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |

| Par27Q_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |     |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel          |            |         |           |                       | 633332                   |                        |                     |          |     |
| Frequency (MHz)  |            |         |           |                       | 3499.98                  |                        |                     |          |     |
| 100              | PI2 BPSK   | 1       | 1         |                       | 14.79                    |                        | 16.0                | 0.0      |     |
| 100              | PI2 BPSK   | 1       | 137       |                       | 14.82                    |                        |                     |          |     |
| 100              | PI2 BPSK   | 1       | 271       |                       | 14.86                    |                        |                     |          |     |
| 100              | PI2 BPSK   | 135     | 0         |                       | 14.78                    |                        | 16.0                | 0.0      |     |
| 100              | PI2 BPSK   | 135     | 69        |                       | 14.85                    |                        | 16.0                | 0.0      |     |
| 100              | PI2 BPSK   | 135     | 138       |                       | 14.85                    |                        | 16.0                | 0.0      |     |
| 100              | PI2 BPSK   | 270     | 0         |                       | 14.80                    |                        |                     |          |     |
| 100              | QPSK       | 1       | 1         |                       | 14.87                    |                        |                     |          |     |
| 100              | QPSK       | 1       | 137       |                       | 14.82                    |                        | 16.0                | 0.0      |     |
| 100              | QPSK       | 1       | 271       |                       | 14.83                    |                        |                     |          |     |
| 100              | QPSK       | 135     | 0         |                       | 14.79                    |                        |                     |          |     |
| 100              | QPSK       | 135     | 69        |                       | 14.85                    |                        | 16.0                | 0.0      |     |
| 100              | QPSK       | 135     | 138       |                       | 14.83                    |                        |                     |          |     |
| 100              | QPSK       | 270     | 0         |                       | 14.84                    |                        |                     |          |     |
| 100              | 16QAM      | 1       | 1         |                       | 14.77                    |                        | 16.0                | 0.0      |     |
| 100              | 64QAM      | 1       | 1         |                       | 14.83                    |                        | 16.0                | 0.0      |     |
| 100              | 256QAM     | 1       | 1         |                       | 14.85                    |                        | 16.0                | 0.0      |     |
| Channel          |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3492.02               | 3499.98                  | 3504.98                | 16.0                | 0.0      |     |
| 90               | QPSK       | 1       | 1         |                       | 14.84                    | 14.80                  | 14.82               | 16.0     | 0.0 |
| Channel          |            |         |           | 630668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3490.02               | 3499.98                  | 3510.00                | 16.0                | 0.0      |     |
| 80               | QPSK       | 1       | 1         |                       | 14.79                    | 14.85                  | 14.83               | 16.0     | 0.0 |
| Channel          |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 16.0                | 0.0      |     |
| 70               | QPSK       | 1       | 1         |                       | 14.83                    | 14.81                  | 14.76               | 16.0     | 0.0 |
| Channel          |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3480.02               | 3499.98                  | 3516.98                | 16.0                | 0.0      |     |
| 60               | QPSK       | 1       | 1         |                       | 14.83                    | 14.76                  | 14.79               | 16.0     | 0.0 |
| Channel          |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3472.02               | 3499.98                  | 3525.00                | 16.0                | 0.0      |     |
| 50               | QPSK       | 1       | 1         |                       | 14.79                    | 14.73                  | 14.77               | 16.0     | 0.0 |
| Channel          |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 16.0                | 0.0      |     |
| 40               | QPSK       | 1       | 1         |                       | 14.83                    | 14.79                  | 14.80               | 16.0     | 0.0 |
| Channel          |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3465.01               | 3499.98                  | 3534.98                | 16.0                | 0.0      |     |
| 30               | QPSK       | 1       | 1         |                       | 14.83                    | 14.83                  | 14.84               | 16.0     | 0.0 |
| Channel          |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3460.02               | 3499.98                  | 3540.00                | 16.0                | 0.0      |     |
| 20               | QPSK       | 1       | 1         |                       | 14.79                    | 14.75                  | 14.80               | 16.0     | 0.0 |
| Channel          |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3457.5                | 3499.98                  | 3542.48                | 16.0                | 0.0      |     |
| 15               | QPSK       | 1       | 1         |                       | 14.83                    | 14.85                  | 14.82               | 16.0     | 0.0 |
| Channel          |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 16.0                | 0.0      |     |
| 10               | QPSK       | 1       | 1         |                       | 14.80                    | 14.79                  | 14.81               | 16.0     | 0.0 |

| Part27O_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |     |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 1         |                       | 14.78                    |                        | 16.0                | 0.0      |     |
| 100               | PI2 BPSK   | 1       | 137       |                       | 14.79                    |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 271       |                       | 14.78                    |                        |                     |          |     |
| 100               | PI2 BPSK   | 135     | 0         |                       | 14.80                    |                        | 16.0                | 0.0      |     |
| 100               | PI2 BPSK   | 135     | 69        |                       | 14.84                    |                        | 16.0                | 0.0      |     |
| 100               | PI2 BPSK   | 135     | 138       |                       | 14.78                    |                        | 16.0                | 0.0      |     |
| 100               | PI2 BPSK   | 270     | 0         |                       | 14.79                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 1         |                       | 14.85                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 137       |                       | 14.83                    |                        | 16.0                | 0.0      |     |
| 100               | QPSK       | 1       | 271       |                       | 14.76                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         |                       | 14.76                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        |                       | 14.82                    |                        | 16.0                | 0.0      |     |
| 100               | QPSK       | 135     | 138       |                       | 14.78                    |                        |                     |          |     |
| 100               | QPSK       | 270     | 0         |                       | 14.74                    |                        |                     |          |     |
| 100               | 16QAM      | 1       | 1         |                       | 14.76                    |                        | 16.0                | 0.0      |     |
| 100               | 64QAM      | 1       | 1         |                       | 14.77                    |                        | 16.0                | 0.0      |     |
| 100               | 256QAM     | 1       | 1         |                       | 14.77                    |                        | 16.0                | 0.0      |     |
| Channel           |            |         |           | 646668                | 650000                   | 650332                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3743.02               | 3750                     | 3754.98                | 16.0                | 0.0      |     |
| 90                | QPSK       | 1       | 1         |                       | 14.75                    | 14.76                  | 14.83               | 16.0     | 0.0 |
| Channel           |            |         |           | 646334                | 650000                   | 650666                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3756.99                | 16.0                | 0.0      |     |
| 80                | QPSK       | 1       | 1         |                       | 14.81                    | 14.76                  | 14.79               | 16.0     | 0.0 |
| Channel           |            |         |           | 645999                | 650000                   | 651000                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | 16.0                | 0.0      |     |
| 70                | QPSK       | 1       | 1         |                       | 14.76                    | 14.74                  | 14.83               | 16.0     | 0.0 |
| Channel           |            |         |           | 646668                | 650000                   | 651332                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3734.02               | 3750                     | 3768.98                | 16.0                | 0.0      |     |
| 60                | QPSK       | 1       | 1         |                       | 14.75                    | 14.77                  | 14.75               | 16.0     | 0.0 |
| Channel           |            |         |           | 646334                | 650000                   | 651666                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | 16.0                | 0.0      |     |
| 50                | QPSK       | 1       | 1         |                       | 14.73                    | 14.74                  | 14.77               | 16.0     | 0.0 |
| Channel           |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | 16.0                | 0.0      |     |
| 40                | QPSK       | 1       | 1         |                       | 14.74                    | 14.82                  | 14.76               | 16.0     | 0.0 |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | 16.0                | 0.0      |     |
| 30                | QPSK       | 1       | 1         |                       | 14.81                    | 14.76                  | 14.75               | 16.0     | 0.0 |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                | 16.0                | 0.0      |     |
| 20                | QPSK       | 1       | 1         |                       | 14.75                    | 14.75                  | 14.81               | 16.0     | 0.0 |
| Channel           |            |         |           | 647000                | 650000                   | 652832                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                | 16.0                | 0.0      |     |
| 15                | QPSK       | 1       | 1         |                       | 14.73                    | 14.73                  | 14.77               | 16.0     | 0.0 |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | 16.0                | 0.0      |     |
| 10                | QPSK       | 1       | 1         |                       | 14.75                    | 14.76                  | 14.77               | 16.0     | 0.0 |



| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 1         |                       | 14.79                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 1       | 137       |                       | 14.82                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 271       |                       | 14.86                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 135     | 0         |                       | 14.78                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 69        |                       | 14.85                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 138       |                       | 14.85                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 270     | 0         |                       | 14.80                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 15.87                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 14.82                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 14.83                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         |                       | 14.79                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 14.85                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 14.83                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 14.84                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 14.77                    |                        |                     |          |  |
| 100                    | 64QAM      | 1       | 1         |                       | 14.83                    |                        | 16.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 14.85                    |                        | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 14.84                 | 14.80                    | 14.82                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 14.79                 | 14.85                    | 14.83                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632334                | 633332                   | 634366                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 14.83                 | 14.81                    | 14.76                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 14.83                 | 14.76                    | 14.79                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 14.79                 | 14.78                    | 14.77                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 14.83                 | 14.79                    | 14.80                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 14.83                 | 14.83                    | 14.84                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 14.79                 | 14.76                    | 14.80                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630334                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 14.83                 | 14.85                    | 14.82                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630000                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 14.80                 | 14.79                    | 14.81                  | 16.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 1         |                       | 14.78                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 1       | 137       |                       | 14.79                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 271       |                       | 14.79                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 135     | 0         |                       | 14.80                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 69        |                       | 14.84                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 138       |                       | 14.78                    |                        | 16.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 270     | 0         |                       | 14.79                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 15.85                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 14.83                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 14.76                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         |                       | 14.76                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 14.82                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 14.78                    |                        | 16.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 14.74                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 14.76                    |                        |                     |          |  |
| 100                    | 64QAM      | 1       | 1         |                       | 14.77                    |                        | 16.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 14.77                    |                        | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 14.75                 | 14.76                    | 14.83                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 14.81                 | 14.76                    | 14.79                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 14.76                 | 14.74                    | 14.83                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3730.02               | 3750                     | 3761.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 14.75                 | 14.77                    | 14.75                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 14.78                 | 14.74                    | 14.77                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 14.74                 | 14.82                    | 14.76                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3715.02               | 3750                     | 3781.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 14.81                 | 14.76                    | 14.75                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3710.01               | 3750                     | 3789.98                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 14.79                 | 14.79                    | 14.81                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 14.78                 | 14.78                    | 14.77                  | 16.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 14.75                 | 14.76                    | 14.77                  | 16.0                | 0.0      |  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100               | Pi/2 BPSK  | 1       | 1         |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100               | Pi/2 BPSK  | 1       | 137       |                       | 15.74                    |                        |                     |          |  |
| 100               | Pi/2 BPSK  | 1       | 271       |                       | 15.76                    |                        |                     |          |  |
| 100               | Pi/2 BPSK  | 135     | 0         |                       | 15.78                    |                        | 17.0                | 0.0      |  |
| 100               | Pi/2 BPSK  | 135     | 69        |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100               | Pi/2 BPSK  | 135     | 138       |                       | 15.73                    |                        | 17.0                | 0.0      |  |
| 100               | Pi/2 BPSK  | 270     | 0         |                       | 15.79                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 15.82                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 15.79                    |                        | 17.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 15.80                    |                        | 17.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         |                       | 15.78                    |                        | 17.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 15.80                    |                        | 17.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 15.78                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 15.78                    |                        |                     |          |  |
| 100               | 64QAM      | 1       | 1         |                       | 15.74                    |                        | 17.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 15.79                    |                        | 17.0                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3486                  | 3499.98                  | 3503.98                | 17.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 15.80                 | 15.72                    | 15.80                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3489.98               | 3499.98                  | 3509.98                | 17.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 15.71                 | 15.77                    | 15.75                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 17.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 15.71                 | 15.72                    | 15.76                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                | 17.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 15.71                 | 15.71                    | 15.77                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | 17.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 15.80                 | 15.74                    | 15.74                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 17.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 15.73                 | 15.73                    | 15.71                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | 17.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 15.77                 | 15.71                    | 15.76                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | 17.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 15.80                 | 15.76                    | 15.71                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 630332                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3549.98                | 17.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 15.76                 | 15.72                    | 15.72                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3450.01               | 3499.98                  | 3544.98                | 17.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 15.76                 | 15.71                    | 15.79                  | 17.0                | 0.0      |  |





| Part270_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                |                          |                        | 17.0                | 0.0      |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         | 16.02                 |                          |                        | 17.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       | 16.04                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       | 16.03                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         | 15.96                 |                          |                        | 17.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        | 15.96                 |                          |                        | 17.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       | 16.00                 |                          |                        | 17.0                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         | 16.01                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 16.03                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 15.97                 |                          |                        | 17.0                | 0.0      |
| 100               | QPSK       | 1       | 271       | 16.03                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 16.03                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 69        | 16.04                 |                          |                        | 17.0                | 0.0      |
| 100               | QPSK       | 135     | 138       | 16.00                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 16.03                 |                          |                        |                     |          |
| 100               | 16QAM      | 1       | 1         | 15.98                 |                          |                        | 17.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 15.98                 |                          |                        | 17.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 16.00                 |                          |                        | 17.0                | 0.0      |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3748.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |
| 90                | QPSK       | 1       | 1         | 15.96                 | 16.00                    | 15.98                  | 17.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |
| 80                | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.97                  | 17.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |
| 70                | QPSK       | 1       | 1         | 15.96                 | 16.03                    | 16.04                  | 17.0                | 0.0      |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |
| 60                | QPSK       | 1       | 1         | 16.04                 | 16.03                    | 16.02                  | 17.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |
| 50                | QPSK       | 1       | 1         | 16.02                 | 15.96                    | 16.02                  | 17.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |
| 40                | QPSK       | 1       | 1         | 16.01                 | 16.00                    | 15.95                  | 17.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |
| 30                | QPSK       | 1       | 1         | 16.04                 | 16.01                    | 15.96                  | 17.0                | 0.0      |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3713.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |
| 20                | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.97                  | 17.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652662                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |
| 15                | QPSK       | 1       | 1         | 16.04                 | 16.01                    | 16.02                  | 17.0                | 0.0      |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |
| 10                | QPSK       | 1       | 1         | 15.96                 | 16.02                    | 15.96                  | 17.0                | 0.0      |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 15.74                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 15.76                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 15.78                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 15.73                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 15.79                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 15.82                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 15.78                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 15.80                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         |                       | 15.78                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 15.80                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 15.77                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 15.78                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 15.76                    |                        | 17.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 15.74                    |                        | 17.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 15.79                    |                        | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                     | QPSK       | 1       | 1         | 15.80                 | 15.72                    | 15.80                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                     | QPSK       | 1       | 1         | 3495.02               | 3499.98                  | 3504.98                | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632334                | 633332                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                     | QPSK       | 1       | 1         | 3485.01               | 3499.98                  | 3514.98                | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                     | QPSK       | 1       | 1         | 15.71                 | 15.71                    | 15.77                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                     | QPSK       | 1       | 1         | 3475.02               | 3499.98                  | 3525                   | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                     | QPSK       | 1       | 1         | 3470.01               | 3499.98                  | 3529.98                | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                     | QPSK       | 1       | 1         | 15.77                 | 15.71                    | 15.76                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                     | QPSK       | 1       | 1         | 15.80                 | 15.76                    | 15.71                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                     | QPSK       | 1       | 1         | 15.75                 | 15.72                    | 15.72                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                     | QPSK       | 1       | 1         | 15.76                 | 15.71                    | 15.79                  | 17.0                | 0.0      |  |

| Part27O_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          | 650000                 |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 16.02                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 16.04                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 16.03                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 15.96                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 15.96                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 16.00                    |                        | 17.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 16.01                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 16.05                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 15.97                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 16.03                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         |                       | 16.03                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 16.04                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 16.00                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 16.03                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 15.98                    |                        | 17.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 15.98                    |                        | 17.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 16.00                    |                        | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                     | QPSK       | 1       | 1         | 15.96                 | 16.00                    | 15.98                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                     | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.97                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                     | QPSK       | 1       | 1         | 15.96                 | 16.03                    | 16.04                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                     | QPSK       | 1       | 1         | 16.04                 | 16.03                    | 16.02                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                     | QPSK       | 1       | 1         | 16.02                 | 15.96                    | 16.02                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                     | QPSK       | 1       | 1         | 16.01                 | 16.00                    | 15.95                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                     | QPSK       | 1       | 1         | 16.04                 | 16.01                    | 15.96                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                     | QPSK       | 1       | 1         | 15.99                 | 16.01                    | 15.97                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                     | QPSK       | 1       | 1         | 16.04                 | 16.01                    | 16.02                  | 17.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                     | QPSK       | 1       | 1         | 15.96                 | 16.02                    | 15.96                  | 17.0                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 11.44                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 11.49                    |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 11.52                    |                        |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 11.48                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 11.52                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 11.50                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 11.49                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 1         |                       | 11.53                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 11.44                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                       | 11.48                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 11.49                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 69        |                       | 11.52                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       |                       | 11.51                    |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         |                       | 11.49                    |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         |                       | 11.47                    |                        | 12.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                       | 11.47                    |                        | 12.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                       | 11.47                    |                        | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                 | QPSK       | 1       | 1         | 11.42                 | 11.42                    | 11.49                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 11.47                 | 11.50                    | 11.47                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                 | QPSK       | 1       | 1         | 11.44                 | 11.47                    | 11.47                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 11.48                 | 11.46                    | 11.45                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 3496.02               | 3499.98                  | 3503.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                 | QPSK       | 1       | 1         | 11.48                 | 11.46                    | 11.45                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 3493.02               | 3499.98                  | 3502.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 40                 | QPSK       | 1       | 1         | 11.49                 | 11.45                    | 11.46                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                 | QPSK       | 1       | 1         | 11.44                 | 11.45                    | 11.51                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                 | QPSK       | 1       | 1         | 11.44                 | 11.41                    | 11.42                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 3493.02               | 3499.98                  | 3502.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 15                 | QPSK       | 1       | 1         | 11.42                 | 11.46                    | 11.47                  | 12.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632332                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                 | QPSK       | 1       | 1         | 11.48                 | 11.45                    | 11.48                  | 12.5                | 0.0      |  |

| Part270_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 650000                |                          | 3750                   | 12.5                | 0.0      |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 11.36                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 11.34                    |                        |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 11.40                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 11.37                    |                        |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 11.40                    |                        | 12.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 11.31                    |                        |                     |          |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 11.40                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         |                       | 11.41                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 11.34                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                       | 11.37                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 135     | 69        |                       | 11.40                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 270     | 0         |                       | 11.39                    |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         |                       | 11.32                    |                        | 12.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                       | 11.32                    |                        |                     |          |  |
| 100                | 256QAM     | 1       | 1         |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| Channel            |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 11.34                 | 11.39                    | 11.33                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 11.37                 | 11.33                    | 11.30                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 11.33                 | 11.32                    | 11.31                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 11.31                 | 11.36                    | 11.35                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 11.32                 | 11.31                    | 11.36                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 11.32                 | 11.33                    | 11.39                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 11.34                 | 11.32                    | 11.34                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3718.01               | 3750                     | 3781.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 11.31                 | 11.30                    | 11.37                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 647668                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 11.32                 | 11.38                    | 11.37                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 11.31                 | 11.33                    | 11.34                  | 12.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                      |                         |                       |                     |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) |
| Channel                 |            |         |           | 633332               | 633332                  | 633332                |                     |
| Frequency (MHz)         |            |         |           | 3499.98              |                         |                       |                     |
| 100                     | P22 BPSK   | 1       | 1         |                      | 11.44                   |                       |                     |
| 100                     | P22 BPSK   | 1       | 137       |                      | 11.49                   |                       | 12.5                |
| 100                     | P22 BPSK   | 1       | 271       |                      | 11.52                   |                       |                     |
| 100                     | P22 BPSK   | 135     | 0         |                      | 11.48                   |                       | 12.5                |
| 100                     | P22 BPSK   | 135     | 69        |                      | 11.52                   |                       | 12.5                |
| 100                     | P22 BPSK   | 135     | 138       |                      | 11.50                   |                       | 12.5                |
| 100                     | P22 BPSK   | 270     | 0         |                      | 11.49                   |                       |                     |
| 100                     | QPSK       | 1       | 1         |                      | 11.53                   |                       |                     |
| 100                     | QPSK       | 1       | 137       |                      | 11.44                   |                       | 12.5                |
| 100                     | QPSK       | 1       | 271       |                      | 11.48                   |                       |                     |
| 100                     | QPSK       | 135     | 0         |                      | 11.49                   |                       | 12.5                |
| 100                     | QPSK       | 135     | 69        |                      | 11.52                   |                       |                     |
| 100                     | QPSK       | 135     | 138       |                      | 11.51                   |                       |                     |
| 100                     | QPSK       | 270     | 0         |                      | 11.49                   |                       | 12.5                |
| 100                     | 16QAM      | 1       | 1         |                      | 11.49                   |                       | 12.5                |
| 100                     | 64QAM      | 1       | 1         |                      | 11.47                   |                       | 12.5                |
| 100                     | 256QAM     | 1       | 1         |                      | 11.47                   |                       | 12.5                |
| Channel                 |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3495                 | 3499.98                 | 3504.99               | (dBm)               |
| 90                      | QPSK       | 1       | 1         | 11.42                | 11.42                   | 11.49                 | 12.5                |
| Channel                 |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3490.02              | 3499.98                 | 3510                  | (dBm)               |
| 80                      | QPSK       | 1       | 1         | 11.47                | 11.50                   | 11.47                 | 12.5                |
| Channel                 |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3485.01              | 3499.98                 | 3514.98               | (dBm)               |
| 70                      | QPSK       | 1       | 1         | 11.47                | 11.47                   | 11.47                 | 12.5                |
| Channel                 |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3480                 | 3499.98                 | 3518.99               | (dBm)               |
| 60                      | QPSK       | 1       | 1         | 11.49                | 11.49                   | 11.45                 | 12.5                |
| Channel                 |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3475.02              | 3499.98                 | 3525                  | (dBm)               |
| 50                      | QPSK       | 1       | 1         | 11.43                | 11.43                   | 11.49                 | 12.5                |
| Channel                 |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3470.01              | 3499.98                 | 3529.98               | (dBm)               |
| 40                      | QPSK       | 1       | 1         | 11.49                | 11.45                   | 11.46                 | 12.5                |
| Channel                 |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3465                 | 3499.98                 | 3534.99               | (dBm)               |
| 30                      | QPSK       | 1       | 1         | 11.44                | 11.45                   | 11.51                 | 12.5                |
| Channel                 |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3460.02              | 3499.98                 | 3540                  | (dBm)               |
| 20                      | QPSK       | 1       | 1         | 11.44                | 11.51                   | 11.42                 | 12.5                |
| Channel                 |            |         |           | 630300               | 633332                  | 636366                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3457.5               | 3499.98                 | 3542.49               | (dBm)               |
| 15                      | QPSK       | 1       | 1         | 11.42                | 11.45                   | 11.47                 | 12.5                |
| Channel                 |            |         |           | 630000               | 633332                  | 636700                | Tune-up limit       |
| Frequency (MHz)         |            |         |           | 3455.01              | 3499.98                 | 3544.98               | (dBm)               |
| 10                      | QPSK       | 1       | 1         | 11.48                | 11.45                   | 11.48                 | 12.5                |

| Part27O_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |
| Channel                 |            |         |           | 633332                | 633332                   | 633332                 |                     |          |
| Frequency (MHz)         |            |         |           |                       | 3750                     |                        |                     |          |
| 100                     | P22 BPSK   | 1       | 1         |                       | 11.36                    |                        |                     |          |
| 100                     | P22 BPSK   | 1       | 137       |                       | 11.34                    |                        | 12.5                | 0.0      |
| 100                     | P22 BPSK   | 1       | 271       |                       | 11.40                    |                        |                     |          |
| 100                     | P22 BPSK   | 135     | 0         |                       | 11.37                    |                        | 12.5                | 0.0      |
| 100                     | P22 BPSK   | 135     | 69        |                       | 11.40                    |                        | 12.5                | 0.0      |
| 100                     | P22 BPSK   | 135     | 138       |                       | 11.31                    |                        | 12.5                | 0.0      |
| 100                     | P22 BPSK   | 270     | 0         |                       | 11.40                    |                        |                     |          |
| 100                     | QPSK       | 1       | 1         |                       | 11.41                    |                        |                     |          |
| 100                     | QPSK       | 1       | 137       |                       | 11.34                    |                        | 12.5                | 0.0      |
| 100                     | QPSK       | 1       | 271       |                       | 11.37                    |                        |                     |          |
| 100                     | QPSK       | 135     | 0         |                       | 11.38                    |                        | 12.5                | 0.0      |
| 100                     | QPSK       | 135     | 69        |                       | 11.40                    |                        |                     |          |
| 100                     | QPSK       | 135     | 138       |                       | 11.36                    |                        |                     |          |
| 100                     | QPSK       | 270     | 0         |                       | 11.39                    |                        | 12.5                | 0.0      |
| 100                     | 16QAM      | 1       | 1         |                       | 11.32                    |                        | 12.5                | 0.0      |
| 100                     | 64QAM      | 1       | 1         |                       | 11.32                    |                        | 12.5                | 0.0      |
| 100                     | 256QAM     | 1       | 1         |                       | 11.38                    |                        | 12.5                | 0.0      |
| Channel                 |            |         |           | 646668                | 650000                   | 650332                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3745.02               | 3750                     | 3754.98                | (dbm)               | (db)     |
| 90                      | QPSK       | 1       | 1         | 11.34                 | 11.35                    | 11.33                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 646334                | 650000                   | 650666                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.99                | (dbm)               | (db)     |
| 80                      | QPSK       | 1       | 1         | 11.37                 | 11.33                    | 11.30                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 645990                | 650000                   | 651000                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   | (dbm)               | (db)     |
| 70                      | QPSK       | 1       | 1         | 11.39                 | 11.32                    | 11.31                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 644668                | 650000                   | 651332                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3730.01               | 3750                     | 3768.98                | (dbm)               | (db)     |
| 60                      | QPSK       | 1       | 1         | 11.31                 | 11.36                    | 11.35                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 644334                | 650000                   | 651666                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.99                | (dbm)               | (db)     |
| 50                      | QPSK       | 1       | 1         | 11.32                 | 11.31                    | 11.30                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 644000                | 650000                   | 652000                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3780                   | (dbm)               | (db)     |
| 40                      | QPSK       | 1       | 1         | 11.32                 | 11.33                    | 11.39                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 643668                | 650000                   | 652332                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                | (dbm)               | (db)     |
| 30                      | QPSK       | 1       | 1         | 11.34                 | 11.32                    | 11.34                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3710.01               | 3750                     | 3789.99                | (dbm)               | (db)     |
| 20                      | QPSK       | 1       | 1         | 11.31                 | 11.30                    | 11.37                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 647000                | 650000                   | 652992                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3707.52               | 3750                     | 3792.48                | (dbm)               | (db)     |
| 15                      | QPSK       | 1       | 1         | 11.32                 | 11.33                    | 11.37                  | 12.5                | 0.0      |
| Channel                 |            |         |           | 647000                | 650000                   | 653300                 | Tune-up limit       | MPR      |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   | (dbm)               | (db)     |
| 10                      | QPSK       | 1       | 1         | 11.31                 | 11.33                    | 11.34                  | 12.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 13.70                    |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 13.70                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 13.68                    |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 13.71                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 13.68                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 13.74                    |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 13.71                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 13.75                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 13.73                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 13.68                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 13.68                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 13.74                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 13.66                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 13.70                    |                        | 15.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 13.74                    |                        | 15.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 13.67                    |                        | 15.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 13.67                    |                        | 15.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                |                          | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  |                          | 3499.98                | 3504.99             | (dB)     |
| 80              | QPSK       | 1       | 1         |                       | 13.65                    | 13.71                  | 13.64               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3496.02               |                          | 3499.98                | 3510                | (dB)     |
| 80              | QPSK       | 1       | 1         |                       | 13.67                    | 13.64                  | 13.71               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3440                  |                          | 3499.98                | 3514.98             | (dB)     |
| 70              | QPSK       | 1       | 1         |                       | 13.71                    | 13.64                  | 13.69               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3440                  |                          | 3499.98                | 3514.98             | (dB)     |
| 60              | QPSK       | 1       | 1         |                       | 13.72                    | 13.69                  | 13.71               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631668                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               |                          | 3499.98                | 3525                | (dB)     |
| 50              | QPSK       | 1       | 1         |                       | 13.70                    | 13.65                  | 13.69               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631334                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               |                          | 3499.98                | 3529.98             | (dB)     |
| 40              | QPSK       | 1       | 1         |                       | 13.66                    | 13.64                  | 13.65               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  |                          | 3499.98                | 3534.99             | (dB)     |
| 30              | QPSK       | 1       | 1         |                       | 13.70                    | 13.66                  | 13.64               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               |                          | 3499.98                | 3540                | (dB)     |
| 20              | QPSK       | 1       | 1         |                       | 13.69                    | 13.66                  | 13.66               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630000                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                |                          | 3499.98                | 3542.48             | (dB)     |
| 15              | QPSK       | 1       | 1         |                       | 13.68                    | 13.70                  | 13.72               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630334                |                          | 633332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               |                          | 3499.98                | 3544.98             | (dB)     |
| 10              | QPSK       | 1       | 1         |                       | 13.73                    | 13.69                  | 13.64               | 15.0 0.0 |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 649968                | 650000                   | 650352                 |                     | MPR (dB) |     |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 14.02                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 14.07                    |                        | 15.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 14.07                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 14.01                    |                        | 15.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 14.07                    |                        | 15.0                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 14.09                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 14.06                    |                        | 15.0                | 0.0      |     |
| 100             | QPSK       | 1       | 1         |                       | 14.10                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 137       |                       | 14.06                    |                        | 15.0                | 0.0      |     |
| 100             | QPSK       | 1       | 271       |                       | 14.08                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 0         |                       | 14.07                    |                        | 15.0                | 0.0      |     |
| 100             | QPSK       | 135     | 69        |                       | 14.06                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 138       |                       | 14.03                    |                        | 15.0                | 0.0      |     |
| 100             | QPSK       | 270     | 0         |                       | 14.03                    |                        | 15.0                | 0.0      |     |
| 100             | 16QAM      | 1       | 1         |                       | 14.03                    |                        | 15.0                | 0.0      |     |
| 100             | 64QAM      | 1       | 1         |                       | 14.06                    |                        | 15.0                | 0.0      |     |
| 100             | 256QAM     | 1       | 1         |                       | 14.08                    |                        | 15.0                | 0.0      |     |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 649968                | 650000                   | 650352                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3742.02               | 3750                     | 3742.98                | (dB)                |          |     |
| 90              | QPSK       | 1       | 1         |                       | 14.04                    | 14.05                  | 14.03               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650968                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                |          |     |
| 80              | QPSK       | 1       | 1         |                       | 13.99                    | 14.06                  | 14.08               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3735                  | 3750                     | 3765                   | (dB)                |          |     |
| 70              | QPSK       | 1       | 1         |                       | 14.06                    | 14.06                  | 14.04               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3730.02               | 3750                     | 3761.98                | (dB)                |          |     |
| 60              | QPSK       | 1       | 1         |                       | 14.04                    | 14.07                  | 14.04               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                |          |     |
| 50              | QPSK       | 1       | 1         |                       | 14.03                    | 14.00                  | 14.01               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3720                  | 3750                     | 3760                   | (dB)                |          |     |
| 40              | QPSK       | 1       | 1         |                       | 14.07                    | 14.05                  | 14.07               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3715.02               | 3750                     | 3748.98                | (dB)                |          |     |
| 30              | QPSK       | 1       | 1         |                       | 14.06                    | 14.00                  | 14.07               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3713.01               | 3750                     | 3739.98                | (dB)                |          |     |
| 20              | QPSK       | 1       | 1         |                       | 14.01                    | 14.07                  | 14.02               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 647168                | 650000                   | 652932                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3707.52               | 3750                     | 3752.48                | (dB)                |          |     |
| 15              | QPSK       | 1       | 1         |                       | 14.03                    | 14.00                  | 14.06               | 15.0     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653100                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                |          |     |
| 10              | QPSK       | 1       | 1         |                       | 14.07                    | 14.04                  | 14.00               | 15.0     | 0.0 |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 13.70                    |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 13.70                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 13.68                    |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 13.71                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 13.68                    |                        | 15.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 13.74                    |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 13.71                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 13.75                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 13.73                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 13.68                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 13.68                    |                        | 15.0                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 13.74                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 13.66                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 13.70                    |                        | 15.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 13.67                    |                        | 15.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 13.67                    |                        | 15.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 13.67                    |                        | 15.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                |                          | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  |                          | 3499.98                | 3504.99             | (dB)     |
| 80              | QPSK       | 1       | 1         |                       | 13.65                    | 13.71                  | 13.64               | 15.0 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| </td>           |            |         |           |                       |                          |                        |                     |          |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          | 3750                   | 15.0                | 0.0      |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 14.02                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 14.07                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 14.07                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 14.01                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 14.07                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 14.09                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 14.06                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 14.10                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 14.06                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 14.08                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 14.07                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 14.06                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 14.03                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 14.03                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 14.03                    |                        | 15.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 14.06                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 14.08                    |                        | 15.0                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 14.04                 | 14.05                    | 14.03                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 13.99                 | 14.06                    | 14.08                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 14.06                 | 14.06                    | 14.04                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 14.04                 | 14.07                    | 14.04                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 14.03                 | 14.00                    | 14.01                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 14.07                 | 14.05                    | 14.07                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 14.06                 | 14.00                    | 14.07                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3713.01               | 3750                     | 3786.99                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 14.01                 | 14.07                    | 14.02                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652662                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 14.03                 | 14.00                    | 14.06                  | 15.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 14.07                 | 14.04                    | 14.00                  | 15.0                | 0.0      |  |

| n2_Ant 0        |            |         |           |                                  |                                     |                                   |                     |          |  |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|---------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>370000 | Power Middle<br>Ch. Freq.<br>375000 | Power High<br>Ch. Freq.<br>380000 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 1860                             | 1860                                | 1900                              | 24.0                | 0.0      |  |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                     |          |  |  |
| 20              | PQ2 BPSK   | 1       | 1         | 23.18                            | 23.27                               | 23.17                             |                     |          |  |  |
| 20              | PQ2 BPSK   | 1       | 53        | 23.18                            | 23.28                               | 23.18                             |                     |          |  |  |
| 20              | PQ2 BPSK   | 1       | 104       | 23.24                            | 23.28                               | 23.16                             | 24.0                | 0.0      |  |  |
| 20              | PQ2 BPSK   | 50      | 0         | 23.11                            | 23.15                               | 23.09                             |                     |          |  |  |
| 20              | PQ2 BPSK   | 50      | 28        | 23.06                            | 23.16                               | 23.14                             | 24.0                | 0.0      |  |  |
| 20              | PQ2 BPSK   | 50      | 56        | 23.06                            | 23.16                               | 23.16                             |                     |          |  |  |
| 20              | PQ2 BPSK   | 100     | 0         | 23.16                            | 23.20                               | 23.12                             | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 1       | 1         | 23.21                            | 23.30                               | 23.22                             |                     |          |  |  |
| 20              | QPSK       | 1       | 53        | 23.24                            | 23.28                               | 23.18                             | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 1       | 104       | 23.17                            | 23.24                               | 23.20                             |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 22.73                            | 22.83                               | 22.77                             |                     |          |  |  |
| 20              | QPSK       | 50      | 28        | 23.16                            | 23.19                               | 23.13                             | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 50      | 56        | 22.77                            | 22.82                               | 22.76                             |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 23.03                            | 23.11                               | 23.03                             | 24.0                | 0.0      |  |  |
| 20              | 16QAM      | 1       | 1         | 23.05                            | 23.07                               | 23.05                             |                     |          |  |  |
| 20              | 64QAM      | 1       | 1         | 21.56                            | 21.62                               | 21.52                             | 22.5                | 1.5      |  |  |
| 20              | 256QAM     | 1       | 1         | 19.48                            | 19.53                               | 19.47                             | 20.5                | 3.5      |  |  |
| Channel         |            |         |           | 371000                           | 376000                              | 380500                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 1867.5                           | 1860                                | 1902.5                            | 24.0                | 0.0      |  |  |
| 15              | QPSK       | 1       | 1         | 23.18                            | 23.26                               | 23.18                             | 24.0                | 0.0      |  |  |
| Channel         |            |         |           | 371000                           | 376000                              | 381000                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 1865                             | 1860                                | 1905                              | 24.0                | 0.0      |  |  |
| 10              | QPSK       | 1       | 1         | 23.22                            | 23.30                               | 23.16                             | 24.0                | 0.0      |  |  |
| Channel         |            |         |           | 370500                           | 376000                              | 381500                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 1862.5                           | 1860                                | 1907.5 <td>24.0</td> <td>0.0</td> | 24.0                | 0.0      |  |  |
| 5               | QPSK       | 1       | 1         | 23.15                            | 23.22                               | 23.16                             | 24.0                | 0.0      |  |  |

| Reduced Power Mode for DSI4 |            |         |           |                                  |                                     |                                   |                        |             |  |  |
|-----------------------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|--|
| n2_Ant 1                    |            |         |           |                                  |                                     |                                   |                        |             |  |  |
| BW [MHz]                    | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>372000 | Power Middle<br>Ch. Freq.<br>376000 | Power High<br>Ch. Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel                     |            |         |           | 1860                             | 1860                                | 1900                              | 24.0                   | 0.0         |  |  |
| Frequency (MHz)             |            |         |           |                                  |                                     |                                   |                        |             |  |  |
| 20                          | PQ2 BPSK   | 1       | 1         | 22.84                            | 22.96                               | 22.89                             |                        |             |  |  |
| 20                          | PQ2 BPSK   | 1       | 53        | 22.94                            | 23.04                               | 22.95                             |                        |             |  |  |
| 20                          | PQ2 BPSK   | 1       | 104       | 22.89                            | 22.98                               | 22.89                             |                        |             |  |  |
| 20                          | PQ2 BPSK   | 50      | 0         | 22.44                            | 22.49                               | 22.46                             | 23.5                   | 0.5         |  |  |
| 20                          | PQ2 BPSK   | 50      | 28        | 22.63                            | 22.65                               | 22.67                             | 24.0                   | 0.0         |  |  |
| 20                          | PQ2 BPSK   | 50      | 56        | 22.38                            | 22.45                               | 22.44                             | 23.5                   | 0.5         |  |  |
| 20                          | PQ2 BPSK   | 100     | 0         | 22.49                            | 22.52                               | 22.45                             | 24.0                   | 0.0         |  |  |
| 20                          | QPSK       | 1       | 1         | 23.02                            | 23.10                               | 23.03                             | 24.0                   | 0.0         |  |  |
| 20                          | QPSK       | 1       | 53        | 22.93                            | 22.99                               | 22.96                             |                        |             |  |  |
| 20                          | QPSK       | 1       | 104       | 22.94                            | 23.03                               | 23.00                             |                        |             |  |  |
| 20                          | QPSK       | 50      | 0         | 21.85                            | 21.89                               | 21.81                             |                        |             |  |  |
| 20                          | QPSK       | 50      | 28        | 22.94                            | 22.98                               | 22.91                             | 23.0                   | 1.0         |  |  |
| 20                          | QPSK       | 50      | 56        | 21.85                            | 21.93                               | 21.83                             | 23.0                   | 1.0         |  |  |
| 20                          | QPSK       | 100     | 0         | 21.91                            | 21.95                               | 21.85                             |                        |             |  |  |
| 20                          | 16QAM      | 1       | 1         | 22.05                            | 22.10                               | 22.02                             |                        |             |  |  |
| 20                          | 64QAM      | 1       | 1         | 20.46                            | 20.54                               | 20.47                             |                        |             |  |  |
| 20                          | 256QAM     | 1       | 1         | 18.43                            | 18.51                               | 18.43                             | 19.5                   | 4.5         |  |  |
| Channel                     |            |         |           | 371500                           | 376000                              | 380500                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)             |            |         |           | 1867.5                           | 1860                                | 1902.5                            | 24.0                   | 0.0         |  |  |
| 15                          | QPSK       | 1       | 1         | 22.91                            | 22.87                               | 22.88                             | 24.0                   | 0.0         |  |  |
| Channel                     |            |         |           | 371000                           | 376000                              | 381000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)             |            |         |           | 1865                             | 1860                                | 1905                              | 24.0                   | 0.0         |  |  |
| 10                          | QPSK       | 1       | 1         | 22.89                            | 22.90                               | 22.83                             | 24.0                   | 0.0         |  |  |
| Channel                     |            |         |           | 370500                           | 376000                              | 381500                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)             |            |         |           | 1862.5                           | 1860                                | 1907.5                            | 24.0                   | 0.0         |  |  |
| 5                           | QPSK       | 1       | 1         | 22.90                            | 22.93                               | 22.86                             | 24.0                   | 0.0         |  |  |

| n5_Ant 0        |            |         |           |                                  |                                     |                                   |                     |          |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>166600 | Power Middle<br>Ch. Freq.<br>167500 | Power High<br>Ch. Freq.<br>168400 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 834                              | 836.5                               | 839                               | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           |                                  |                                     |                                   |                     |          |  |
| 20              | PQ2 BPSK   | 1       | 1         | 22.78                            | 22.82                               | 22.80                             |                     |          |  |
| 20              | PQ2 BPSK   | 1       | 53        | 22.89                            | 22.96                               | 22.87                             |                     |          |  |
| 20              | PQ2 BPSK   | 1       | 104       | 22.78                            | 22.88                               | 22.78                             | 24.0                | 0.0      |  |
| 20              | PQ2 BPSK   | 50      | 0         | 22.78                            | 22.88                               | 22.86                             |                     |          |  |
| 20              | PQ2 BPSK   | 50      | 28        | 22.90                            | 22.95                               | 22.90                             |                     |          |  |
| 20              | PQ2 BPSK   | 50      | 56        | 22.77                            | 22.82                               | 22.79                             |                     |          |  |
| 20              | PQ2 BPSK   | 100     | 0         | 22.78                            | 22.88                               | 22.83                             | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 22.90                            | 23.00                               | 22.90                             | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 22.79                            | 22.82                               | 22.79                             |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.92                            | 22.86                               | 22.78                             |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.76                            | 22.85                               | 22.76                             |                     |          |  |
| 20              | QPSK       | 50      | 28        | 22.91                            | 22.95                               | 22.92                             | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.77                            | 22.86                               | 22.84                             | 24.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 22.87                            | 22.99                               | 22.84                             |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.87                            | 22.92                               | 22.87                             |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 21.61                            | 21.65                               | 21.55                             | 22.5                | 1.5      |  |
| 20              | 256QAM     | 1       | 1         | 19.69                            | 19.71                               | 19.67                             | 20.5                | 3.5      |  |
| Channel         |            |         |           | 166500                           | 167500                              | 168500                            | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 831.5                            | 836.5                               | 841.5                             | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.78                            | 22.83                               | 22.84                             | 24.0                | 0.0      |  |
| Channel         |            |         |           | 166800                           | 167500                              | 168800                            | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 829                              | 836.5                               | 844                               | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.83                            | 22.98                               | 22.76                             | 24.0                | 0.0      |  |
| Channel         |            |         |           | 166300                           | 167500                              | 168900                            | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 836.5                            | 836.5                               | 846.5                             | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 22.83                            | 22.83                               | 22.83                             | 24.0                | 0.0      |  |

| n5_Ant 1        |            |         |           |                                       |                                          |                                        |                        |             |  |
|-----------------|------------|---------|-----------|---------------------------------------|------------------------------------------|----------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. 1 Freq.<br>166800 | Power<br>Middle<br>Ch. 1 Freq.<br>167300 | Power<br>High<br>Ch. 1 Freq.<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                   | 836.5                                    | 839                                    |                        |             |  |
| Frequency (MHz) |            |         |           |                                       |                                          |                                        |                        |             |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.74                                 | 22.77                                    | 22.70                                  | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.91                                 | 22.86                                    | 22.86                                  |                        |             |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.85                                 | 22.88                                    | 22.82                                  |                        |             |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.81                                 | 22.85                                    | 22.79                                  | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.79                                 | 22.89                                    | 22.79                                  | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.79                                 | 22.88                                    | 22.84                                  | 24.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.68                                 | 22.78                                    | 22.75                                  | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 22.95                                 | 22.98                                    | 22.98                                  | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 22.72                                 | 22.78                                    | 22.73                                  |                        |             |  |
| 20              | QPSK       | 1       | 104       | 22.85                                 | 22.88                                    | 22.81                                  |                        |             |  |
| 20              | QPSK       | 50      | 0         | 22.73                                 | 22.82                                    | 22.74                                  | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 22.80                                 | 22.90                                    | 22.82                                  | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 22.74                                 | 22.80                                    | 22.74                                  | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.85                                 | 22.89                                    | 22.83                                  | 24.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 22.81                                 | 22.85                                    | 22.78                                  | 24.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.51                                 | 21.61                                    | 21.56                                  | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.62                                 | 19.64                                    | 19.62                                  | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                                | 167300                                   | 168300                                 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                                 | 836.5                                    | 841.5                                  |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.87                                 | 22.93                                    | 22.87                                  | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166800                                | 167300                                   | 168800                                 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 834                                   | 836.5                                    | 844                                    |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.90                                 | 22.90                                    | 22.87                                  | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166300                                | 167300                                   | 168300                                 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 836.5                                 | 836.5                                    | 846.5                                  |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.93                                 | 22.96                                    | 22.83                                  | 24.0                   | 0.0         |  |

| n7_Ant 9        |            |         |           |                          |                             |                           |               |      |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------|------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq. | Power Middle<br>Ch. 1 Freq. | Power High<br>Ch. 1 Freq. | Tune-up limit | MPR  |  |
| Channel         |            |         |           | 503800                   | 507000                      | 511000                    | (dBm)         | (dB) |  |
| Frequency (MHz) |            |         |           | 2520                     | 2535                        | 2550                      |               |      |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.88                    | 23.08                       | 23.05                     | 24.0          | 0.0  |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.10                    | 23.24                       | 23.15                     |               |      |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.07                    | 23.23                       | 23.21                     |               |      |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.90                    | 23.05                       | 23.01                     | 24.0          | 0.0  |  |
| 40              | PI2 BPSK   | 108     | 54        | 22.99                    | 23.15                       | 23.10                     | 24.0          | 0.0  |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.99                    | 23.12                       | 23.04                     | 24.0          | 0.0  |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.99                    | 23.11                       | 23.07                     | 24.0          | 0.0  |  |
| 40              | QPSK       | 1       | 1         | 23.11                    | 23.26                       | 23.24                     | 24.0          | 0.0  |  |
| 40              | QPSK       | 1       | 108       | 22.96                    | 23.11                       | 23.03                     |               |      |  |
| 40              | QPSK       | 1       | 214       | 23.07                    | 23.23                       | 23.20                     |               |      |  |
| 40              | QPSK       | 108     | 0         | 22.85                    | 23.05                       | 22.96                     | 24.0          | 0.0  |  |
| 40              | QPSK       | 108     | 54        | 23.05                    | 23.20                       | 23.11                     | 24.0          | 0.0  |  |
| 40              | QPSK       | 108     | 108       | 22.89                    | 23.09                       | 23.05                     | 24.0          | 0.0  |  |
| 40              | QPSK       | 216     | 0         | 23.05                    | 23.16                       | 23.06                     | 24.0          | 0.0  |  |
| 40              | 16QAM      | 1       | 1         | 23.13                    | 23.25                       | 23.23                     | 24.0          | 0.0  |  |
| 40              | 64QAM      | 1       | 1         | 22.31                    | 22.51                       | 22.44                     | 23.0          | 1.0  |  |
| 40              | 256QAM     | 1       | 1         | 20.29                    | 20.47                       | 20.37                     | 21.0          | 3.0  |  |
| Channel         |            |         |           | 503800                   | 507000                      | 511000                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2515                     | 2535                        | 2555                      | (dBm)         | (dB) |  |
| 30              | QPSK       | 1       | 1         | 23.04                    | 23.16                       | 23.14                     | 24.0          | 0.0  |  |
| Channel         |            |         |           | 502500                   | 507000                      | 511500                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2512.5                   | 2535                        | 2537.5                    | (dBm)         | (dB) |  |
| 25              | QPSK       | 1       | 1         | 23.06                    | 23.24                       | 23.18                     | 24.0          | 0.0  |  |
| Channel         |            |         |           | 502000                   | 507000                      | 512000                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      | (dBm)         | (dB) |  |
| 20              | QPSK       | 1       | 1         | 23.05                    | 23.17                       | 23.19                     | 24.0          | 0.0  |  |
| Channel         |            |         |           | 501500                   | 507000                      | 512500                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    | (dBm)         | (dB) |  |
| 15              | QPSK       | 1       | 1         | 23.04                    | 23.22                       | 23.13                     | 24.0          | 0.0  |  |
| Channel         |            |         |           | 501000                   | 507000                      | 513000                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      | (dBm)         | (dB) |  |
| 10              | QPSK       | 1       | 1         | 23.01                    | 23.20                       | 23.16                     | 24.0          | 0.0  |  |
| Channel         |            |         |           | 500500                   | 507000                      | 513500                    | Tune-up limit | MPR  |  |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    | (dBm)         | (dB) |  |
| 5               | QPSK       | 1       | 1         | 23.07                    | 23.23                       | 23.19                     | 24.0          | 0.0  |  |

| n7_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>504000 | Power Middle<br>Ch. 1 Freq.<br>507000 | Power High<br>Ch. 1 Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 2520                               | 2535                                  | 2550                                |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.88                              | 23.07                                 | 22.98                               | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.12                              | 23.17                                 | 23.11                               |                        |             |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.11                              | 23.21                                 | 23.17                               |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.90                              | 22.95                                 | 22.83                               | 23.5                   | 0.5         |  |
| 40              | PI2 BPSK   | 108     | 54        | 23.04                              | 23.06                                 | 22.97                               | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.84                              | 22.71                                 | 22.70                               | 23.5                   | 0.5         |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.70                              | 22.72                                 | 22.68                               | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 1         | 23.14                              | 23.23                                 | 23.18                               | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 108       | 23.10                              | 23.14                                 | 23.09                               |                        |             |  |
| 40              | QPSK       | 1       | 214       | 23.13                              | 23.17                                 | 23.17                               |                        |             |  |
| 40              | QPSK       | 108     | 0         | 22.03                              | 22.11                                 | 22.06                               | 23.0                   | 1.0         |  |
| 40              | QPSK       | 108     | 54        | 23.05                              | 23.08                                 | 23.04                               | 24.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 22.19                              | 22.22                                 | 22.16                               | 23.0                   | 1.0         |  |
| 40              | QPSK       | 216     | 0         | 22.12                              | 22.18                                 | 22.15                               | 23.0                   | 1.0         |  |
| 40              | 16QAM      | 1       | 1         | 22.34                              | 22.36                                 | 22.32                               | 23.0                   | 1.0         |  |
| 40              | 64QAM      | 1       | 1         | 20.78                              | 20.86                                 | 20.84                               | 21.5                   | 2.5         |  |
| 40              | 256QAM     | 1       | 1         | 18.80                              | 18.82                                 | 18.77                               | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 503800                             | 507000                                | 511000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2515                               | 2535                                  | 2555                                |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.93                              | 23.03                                 | 22.96                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502500                             | 507000                                | 511500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2512.5                             | 2535                                  | 2537.5                              |                        |             |  |
| 25              | QPSK       | 1       | 1         | 22.92                              | 23.06                                 | 22.92                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                             | 507000                                | 512000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2510                               | 2535                                  | 2560                                |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.93                              | 22.99                                 | 22.97                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501500                             | 507000                                | 512500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                             | 2535                                  | 2562.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.06                                 | 22.97                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                             | 507000                                | 513000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2505                               | 2535                                  | 2565                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.97                              | 23.00                                 | 22.91                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                             | 507000                                | 513500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                             | 2535                                  | 2567.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.93                              | 23.03                                 | 22.94                               | 24.0                   | 0.0         |  |



| n12_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |  |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>141300 | Power Middle<br>Ch. 1 Freq.<br>141500 | Power High<br>Ch. 1 Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 708.5                               | 24.0                   | 0.0         |  |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                              | 22.90                                 | 22.84                               |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                              | 22.96                                 | 22.91                               |                        |             |  |  |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                              | 22.93                                 | 22.83                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                              | 22.79                                 | 22.77                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                              | 22.75                                 | 22.70                               | 24.0                   | 0.0         |  |  |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                              | 22.88                                 | 22.80                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.01                                 | 22.92                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 1       | 40        | 22.85                              | 22.92                                 | 22.83                               |                        |             |  |  |
| 15              | QPSK       | 1       | 77        | 22.83                              | 22.93                                 | 22.91                               |                        |             |  |  |
| 15              | QPSK       | 36      | 0         | 22.79                              | 22.86                                 | 22.79                               |                        |             |  |  |
| 15              | QPSK       | 36      | 22        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 36      | 43        | 22.70                              | 22.78                                 | 22.70                               | 24.0                   | 0.0         |  |  |
| 15              | QPSK       | 75      | 0         | 22.84                              | 22.90                                 | 22.87                               | 24.0                   | 0.0         |  |  |
| 15              | 16QAM      | 1       | 1         | 22.95                              | 22.91                                 | 22.86                               | 24.0                   | 0.0         |  |  |
| 15              | 64QAM      | 1       | 1         | 21.43                              | 21.51                                 | 21.49                               | 22.5                   | 1.5         |  |  |
| 15              | 256QAM     | 1       | 1         | 19.51                              | 19.55                                 | 19.49                               | 20.5                   | 3.5         |  |  |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | 24.0 <td>0.0</td>      | 0.0         |  |  |
| 10              | QPSK       | 1       | 1         | 22.88                              | 22.99                                 | 22.86                               | 24.0                   | 0.0         |  |  |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | 24.0 <td>0.0</td>      | 0.0         |  |  |
| 5               | QPSK       | 1       | 1         | 22.89                              | 22.94                                 | 22.87                               | 24.0                   | 0.0         |  |  |

| n12_Ant 1       |            |         |           |                             |                                |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. 1 Freq. | Power<br>Middle<br>Ch. 1 Freq. | Power<br>High<br>Ch. 1 Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 141300                      | 141500                         | 141700                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 706.5                       | 707.5                          | 708.5                        |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 23.34                       | 23.35                          | 23.31                        |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 23.33                       | 23.36                          | 23.31                        |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 23.31                       | 23.32                          | 23.31                        | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.89                       | 22.91                          | 22.84                        | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 22        | 23.15                       | 23.17                          | 23.15                        | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.82                       | 22.91                          | 22.87                        | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.95                       | 22.98                          | 22.93                        |                        |             |
| 15              | QPSK       | 1       | 1         | 23.35                       | 23.37                          | 23.36                        | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 23.19                       | 23.28                          | 23.24                        |                        |             |
| 15              | QPSK       | 1       | 77        | 23.34                       | 23.36                          | 23.34                        |                        |             |
| 15              | QPSK       | 36      | 0         | 22.40                       | 22.46                          | 22.44                        |                        |             |
| 15              | QPSK       | 36      | 22        | 23.19                       | 23.23                          | 23.16                        | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.26                       | 22.35                          | 22.30                        | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.49                       | 22.52                          | 22.45                        | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         | 22.97                       | 22.81                          | 22.51                        | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 21.05                       | 21.11                          | 21.08                        | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 19.08                       | 19.18                          | 19.17                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 140300                      | 141500                         | 142700                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                         | 707.5                          | 711                          | 24.0 <td>0.0</td>      | 0.0         |
| 10              | QPSK       | 1       | 1         | 23.32                       | 23.29                          | 23.26                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                      | 141500                         | 142700                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                       | 707.5                          | 713.5                        | 24.0 <td>0.0</td>      | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.30                       | 23.33                          | 23.27                        | 24.0                   | 0.0         |

| n14_Ant 0       |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq. | Power Middle<br>Ch. 1 Freq. | Power High<br>Ch. 1 Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 159600                   | 159800                      | 159100                    | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 710                      |                             |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         |                          | 22.78                       |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 26        |                          | 22.80                       |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        |                          | 22.76                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 0         |                          | 22.84                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        |                          | 22.89                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        |                          | 22.63                       |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         |                          | 22.64                       |                           |                        |             |
| 10              | QPSK       | 1       | 1         |                          | 22.82                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        |                          | 22.80                       |                           |                        |             |
| 10              | QPSK       | 1       | 50        |                          | 22.72                       |                           |                        |             |
| 10              | QPSK       | 25      | 0         |                          | 22.65                       |                           |                        |             |
| 10              | QPSK       | 25      | 14        |                          | 22.71                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                          | 22.68                       |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 50      | 0         |                          | 22.68                       |                           | 24.0                   | 0.0         |
| 10              | 16QAM      | 1       | 1         |                          | 22.80                       |                           | 24.0                   | 0.0         |
| 10              | 64QAM      | 1       | 1         |                          | 21.57                       |                           | 22.5                   | 1.5         |
| 10              | 256QAM     | 1       | 1         |                          | 19.45                       |                           | 20.5                   | 3.5         |
| Channel         |            |         |           | 159100                   | 159800                      | 159100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 700.5                    | 710                         | 705.5                     | 24.0 <td>0.0</td>      | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.74                    | 22.75                       | 22.75                     | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Mid<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|-----------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 793                         |                             |                              |                        |             |
| Frequency (MHz) |            |         |           | 793                         |                             |                              |                        |             |
| 10              | PlZ BPSK   | 1       | 1         |                             | 23.15                       |                              | 24.0                   | 0.0         |
| 10              | PlZ BPSK   | 1       | 26        |                             | 23.16                       |                              |                        |             |
| 10              | PlZ BPSK   | 1       | 50        |                             | 23.16                       |                              |                        |             |
| 10              | PlZ BPSK   | 25      | 0         |                             | 23.04                       |                              | 24.0                   | 0.0         |
| 10              | PlZ BPSK   | 25      | 14        |                             | 23.05                       |                              | 24.0                   | 0.0         |
| 10              | PlZ BPSK   | 25      | 27        |                             | 22.98                       |                              |                        |             |
| 10              | PlZ BPSK   | 50      | 0         |                             | 23.00                       |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         |                             | 23.21                       |                              |                        |             |
| 10              | QPSK       | 1       | 26        |                             | 23.18                       |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 50        |                             | 23.18                       |                              |                        |             |
| 10              | QPSK       | 25      | 0         |                             | 22.55                       |                              | 23.5                   | 0.5         |
| 10              | QPSK       | 25      | 14        |                             | 23.11                       |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                             | 22.53                       |                              | 23.5                   | 0.5         |
| 10              | QPSK       | 50      | 0         |                             | 22.51                       |                              | 23.5                   | 0.5         |
| 10              | 16QAM      | 1       | 1         |                             | 22.61                       |                              | 23.5                   | 0.5         |
| 10              | 64QAM      | 1       | 1         |                             | 21.33                       |                              | 22.0                   | 2.0         |
| 10              | 256QAM     | 1       | 1         |                             | 19.15                       |                              | 20.0                   | 4.0         |
| Channel         |            |         |           | 159.00                      | 159.00                      | 159.00                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 790.5                       | 793                         | 795.5                        | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 23.12                       | 23.14                       | 23.08                        | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>374000 | Power Middle<br>Ch. / Freq.<br>375000 | Power High<br>Ch. / Freq.<br>376000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 23.16                              | 23.23                                 | 23.18                               |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 23.25                              | 23.33                                 | 23.23                               |                        | 0.0         |
| 40              | PlZ BPSK   | 1       | 214       | 23.22                              | 23.28                                 | 23.24                               |                        |             |
| 40              | PlZ BPSK   | 108     | 0         | 22.81                              | 22.89                                 | 22.82                               | 23.5                   | 0.5         |
| 40              | PlZ BPSK   | 108     | 54        | 23.11                              | 23.18                                 | 23.08                               | 24.0                   |             |
| 40              | PlZ BPSK   | 108     | 108       | 22.90                              | 22.99                                 | 22.94                               | 23.5                   | 0.5         |
| 40              | PlZ BPSK   | 216     | 0         | 22.99                              | 23.01                                 | 22.93                               |                        |             |
| 40              | QPSK       | 1       | 1         | 23.26                              | 23.36                                 | 23.34                               |                        |             |
| 40              | QPSK       | 1       | 108       | 23.18                              | 23.25                                 | 23.18                               | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 23.25                              | 23.32                                 | 23.22                               |                        |             |
| 40              | QPSK       | 108     | 0         | 22.29                              | 22.38                                 | 22.32                               | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 23.15                              | 23.25                                 | 23.16                               | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.39                              | 22.43                                 | 22.38                               |                        |             |
| 40              | QPSK       | 216     | 0         | 22.41                              | 22.43                                 | 22.39                               | 23.0                   | 1.0         |
| 40              | 16QAM      | 1       | 1         | 22.38                              | 22.45                                 | 22.35                               | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.89                              | 20.96                                 | 20.90                               | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 19.11                              | 19.14                                 | 19.09                               | 19.5                   | 4.5         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 35              | QPSK       | 1       | 1         | 373500<br>1867.5                   | 375000<br>1882.5                      | 376500<br>1897.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 30              | QPSK       | 1       | 1         | 373000<br>1865                     | 375000<br>1882.5                      | 376500<br>1900                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 23.22                              | 23.33                                 | 23.28                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 25              | QPSK       | 1       | 1         | 372000<br>1862.5                   | 375000<br>1882.5                      | 381000<br>1902.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 23.25                              | 23.32                                 | 23.30                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 20              | QPSK       | 1       | 1         | 371000<br>1857.5                   | 375000<br>1882.5                      | 381000<br>1910                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 23.26                              | 23.29                                 | 23.30                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | QPSK       | 1       | 1         | 370500<br>1855                     | 375000<br>1882.5                      | 381000<br>1910                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 23.26                              | 23.34                                 | 23.28                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | QPSK       | 1       | 1         | 370000<br>1852.5                   | 375000<br>1882.5                      | 381000<br>1912.5                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 23.23                              | 23.28                                 | 23.25                               | 24.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 5               | QPSK       | 1       | 1         | 23.23                              | 23.34                                 | 23.28                               | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1870                     | 1882.5                      | 1895                      |                        |             |
| Frequency (MHz) |            |         |           | 22.64                    | 22.72                       | 22.84                     |                        |             |
| 40              | PV2 BPSK   | 1       | 1         | 22.64                    | 22.72                       | 22.84                     |                        | 0.0         |
| 40              | PV2 BPSK   | 1       | 214       | 22.66                    | 22.75                       | 22.74                     |                        |             |
| 40              | PV2 BPSK   | 1       | 108       | 22.46                    | 22.47                       | 22.39                     |                        |             |
| 40              | PV2 BPSK   | 108     | 0         | 22.12                    | 22.19                       | 22.18                     | 23.5                   | 0.0         |
| 40              | PV2 BPSK   | 108     | 54        | 22.47                    | 22.53                       | 22.45                     | 24.0                   |             |
| 40              | PV2 BPSK   | 108     | 108       | 22.15                    | 22.18                       | 22.12                     | 23.5                   | 0.0         |
| 40              | PV2 BPSK   | 216     | 0         | 22.10                    | 22.14                       | 22.12                     |                        |             |
| 40              | QPSK       | 1       | 1         | 22.72                    | 22.78                       | 22.72                     |                        |             |
| 40              | QPSK       | 1       | 108       | 22.68                    | 22.73                       | 22.68                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 22.42                    | 22.49                       | 22.39                     |                        |             |
| 40              | QPSK       | 108     | 0         | 21.63                    | 21.64                       | 21.61                     | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 22.47                    | 22.53                       | 22.44                     | 24.0                   |             |
| 40              | QPSK       | 108     | 108       | 21.54                    | 21.62                       | 21.60                     | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 21.63                    | 21.64                       | 21.63                     | 23.0                   | 1.0         |
| 40              | 16QAM      | 1       | 1         | 21.91                    | 21.94                       | 21.92                     | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.46                    | 20.48                       | 20.43                     | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 18.36                    | 18.43                       | 18.36                     | 19.5                   | 4.5         |
| Channel         |            |         |           | 373500                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1897.5                    |                        |             |
| 35              | QPSK       | 1       | 1         | 22.63                    | 22.71                       | 22.81                     |                        | 0.0         |
| Channel         |            |         |           | 373000                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1900                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.62                    | 22.63                       | 22.59                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 372500                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1902.5                    |                        |             |
| 25              | QPSK       | 1       | 1         | 22.63                    | 22.70                       | 22.60                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    |                        |             |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | QPSK       | 1       | 1         | 22.62                    | 22.69                       | 22.63                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376500                      | 381500                    |                        |             |
| Frequency (MHz) |            |         |           | 1857.5                   | 1882.5                      | 1907.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 22.56                    | 22.68                       | 22.62                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    |                        |             |
| Frequency (MHz) |            |         |           | 1855                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.59                    | 22.71                       | 22.61                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    |                        |             |
| Frequency (MHz) |            |         |           | 1852.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 22.63                    | 22.69                       | 22.55                     | 24.0                   | 0.0         |



| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |  |  |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |  |  |
| Frequency (MHz) |            |         |           |                              |                                 |                               |                     |          |  |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.84                        | 22.90                           | 22.87                         |                     |          |  |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.99                        | 23.02                           | 22.97                         |                     |          |  |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.92                        | 23.00                           | 22.98                         | 24.0                | 0.0      |  |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |  |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |  |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |  |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |  |  |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         | 23.5                | 0.5      |  |  |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.87                         | 24.0                | 0.0      |  |  |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |  |  |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.82                           | 22.58                         | 23.5                | 0.5      |  |  |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |  |  |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |  |  |
| 20              | 256QAM     | 1       | 1         | 18.13                        | 18.17                           | 18.14                         | 20.0                | 4.0      |  |  |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |  |  |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |  |  |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |  |  |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |  |  |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |  |  |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |  |  |

| n26(FCC)_Ant 1  |            |         |           |                                    |                                       |                                     |                        |             |  |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>164800 | Power Middle<br>Ch. / Freq.<br>166300 | Power High<br>Ch. / Freq.<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |         |           | 824                                | 831.5                                 | 839                                 | 24.0                   | 0.0         |  |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |  |
| 20              | Pl2 BPSK   | 1       | 1         | 23.07                              | 23.10                                 | 23.08                               |                        |             |  |  |
| 20              | Pl2 BPSK   | 1       | 53        | 23.04                              | 23.12                                 | 23.03                               |                        |             |  |  |
| 20              | Pl2 BPSK   | 1       | 104       | 23.23                              | 23.26                                 | 23.20                               | 23.5                   | 0.5         |  |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.80                              | 22.82                                 | 22.74                               | 23.5                   | 0.5         |  |  |
| 20              | Pl2 BPSK   | 50      | 28        | 23.16                              | 23.22                                 | 23.13                               | 24.0                   | 0.0         |  |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.91                              | 22.99                                 | 22.95                               | 23.5                   | 0.5         |  |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.87                              | 22.90                                 | 22.82                               | 23.5                   | 0.5         |  |  |
| 20              | QPSK       | 1       | 1         | 23.25                              | 23.30                                 | 23.26                               | 24.0                   | 0.0         |  |  |
| 20              | QPSK       | 1       | 53        | 23.07                              | 23.13                                 | 23.06                               |                        |             |  |  |
| 20              | QPSK       | 1       | 104       | 23.23                              | 23.26                                 | 23.22                               |                        |             |  |  |
| 20              | QPSK       | 50      | 0         | 22.23                              | 22.33                                 | 22.26                               | 23.0                   | 1.0         |  |  |
| 20              | QPSK       | 50      | 28        | 23.18                              | 23.25                                 | 23.21                               | 24.0                   | 0.0         |  |  |
| 20              | QPSK       | 50      | 56        | 22.42                              | 22.47                                 | 22.44                               | 23.0                   | 1.0         |  |  |
| 20              | QPSK       | 100     | 0         | 22.38                              | 22.43                                 | 22.39                               | 23.0                   | 1.0         |  |  |
| 20              | 16QAM      | 1       | 1         | 22.45                              | 22.46                                 | 22.45                               | 23.0                   | 1.0         |  |  |
| 20              | 64QAM      | 1       | 1         | 20.89                              | 20.95                                 | 20.94                               | 21.5                   | 2.5         |  |  |
| 20              | 256QAM     | 1       | 1         | 18.78                              | 18.88                                 | 18.86                               | 19.5                   | 4.5         |  |  |
| Channel         |            |         |           | 164300                             | 166300                                | 168300                              | Tune-up limit          | MPR         |  |  |
| Frequency (MHz) |            |         |           | 821.5                              | 831.5                                 | 841.5                               | (dBm)                  | (dB)        |  |  |
| 15              | QPSK       | 1       | 1         | 23.15                              | 23.25                                 | 23.16                               | 24.0                   | 0.0         |  |  |
| Channel         |            |         |           | 163800                             | 166300                                | 168800                              | Tune-up limit          | MPR         |  |  |
| Frequency (MHz) |            |         |           | 819                                | 831.5                                 | 844                                 | (dBm)                  | (dB)        |  |  |
| 10              | QPSK       | 1       | 1         | 23.22                              | 23.21                                 | 23.21                               | 24.0                   | 0.0         |  |  |
| Channel         |            |         |           | 163300                             | 166300                                | 169300                              | Tune-up limit          | MPR         |  |  |
| Frequency (MHz) |            |         |           | 816.5                              | 831.5                                 | 846.5                               | (dBm)                  | (dB)        |  |  |
| 5               | QPSK       | 1       | 1         | 23.17                              | 23.20                                 | 23.23                               | 24.0                   | 0.0         |  |  |

| n30_Ant 9       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                          |                        | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 22.85                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 22.85                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 22.78                 |                          |                        | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 0         | 22.86                 |                          |                        | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 14        | 22.73                 |                          |                        | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 27        | 22.67                 |                          |                        | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 50      | 0         | 22.72                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.90                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 22.88                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 22.86                 |                          |                        |                     |          |
| 10              | QPSK       | 26      | 0         | 22.81                 |                          |                        |                     |          |
| 10              | QPSK       | 26      | 14        | 22.75                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 26      | 27        | 22.71                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 22.73                 |                          |                        | 24.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 22.78                 |                          |                        | 24.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 22.05                 |                          |                        | 22.5                | 1.5      |
| 10              | 256QAM     | 1       | 1         | 19.88                 |                          |                        | 20.5                | 3.5      |
| Channel         |            |         |           | 461500                | 462500                   | 463500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.77                 | 22.80                    | 22.78                  | 24.0                | 0.0      |



| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 22.08                           |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 22.12                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 22.08                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 21.59                           |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 22.10                           |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 21.54                           |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 21.63                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 22.18                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 22.14                           |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 22.03                           |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.15                           |                        | 23.0                | 1.0      |
| 10              | QPSK       | 25      | 14        |                       | 22.10                           |                        | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        |                       | 21.05                           |                        | 23.0                | 1.0      |
| 10              | QPSK       | 50      | 0         |                       | 21.09                           |                        |                     |          |
| 10              | 16QAM      | 1       | 1         |                       | 21.17                           |                        | 23.0                | 1.0      |
| 10              | 64QAM      | 1       | 1         |                       | 19.85                           |                        | 21.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         |                       | 17.63                           |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 22.06                 | 22.11                           | 22.08                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                     | 1745                        | 1760                      | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                     | 1745                        | 1760                      |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 23.10                    | 23.15                       | 23.08                     |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 23.20                    | 23.26                       | 23.20                     |                        |             |
| 40              | PlZ BPSK   | 1       | 214       | 23.24                    | 23.26                       | 23.16                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 0         | 23.15                    | 23.21                       | 23.17                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 54        | 23.21                    | 23.25                       | 23.17                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 108       | 23.18                    | 23.23                       | 23.21                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 216     | 0         | 23.11                    | 23.20                       | 23.18                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 23.25                    | 23.31                       | 23.30                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 23.14                    | 23.18                       | 23.12                     |                        |             |
| 40              | QPSK       | 1       | 214       | 23.21                    | 23.26                       | 23.24                     |                        |             |
| 40              | QPSK       | 108     | 0         | 22.75                    | 22.85                       | 22.83                     |                        |             |
| 40              | QPSK       | 108     | 54        | 23.21                    | 23.26                       | 23.25                     | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.95                    | 22.97                       | 22.87                     | 24.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 23.05                    | 23.11                       | 23.06                     | 24.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 23.03                    | 23.05                       | 23.03                     | 24.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 21.48                    | 21.51                       | 21.48                     | 22.5                   | 1.5         |
| 40              | 256QAM     | 1       | 1         | 19.39                    | 19.46                       | 19.41                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1727.5                   | 1745                        | 1762.5                    | 24.0                   | 0.0         |
| 35              | QPSK       | 1       | 1         | 23.21                    | 23.26                       | 23.27                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 23.23                    | 23.27                       | 23.21                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 23.22                    | 23.25                       | 23.24                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 23.18                    | 23.23                       | 23.22                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 345000                      | 354000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 23.18                    | 23.22                       | 23.26                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 23.18                    | 23.28                       | 23.21                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                   | 345000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 23.22                    | 23.23                       | 23.22                     | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                     | 1745                        | 1760                      | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                     | 1745                        | 1760                      |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 22.90                    | 22.96                       | 22.91                     |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 22.86                    | 22.95                       | 22.89                     |                        |             |
| 40              | PlZ BPSK   | 1       | 214       | 22.91                    | 22.92                       | 22.84                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 0         | 22.91                    | 22.97                       | 22.95                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 54        | 22.96                    | 23.05                       | 22.95                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 108       | 22.95                    | 23.04                       | 22.99                     | 24.0                   | 0.0         |
| 40              | PlZ BPSK   | 216     | 0         | 22.99                    | 23.01                       | 22.91                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 23.00                    | 23.08                       | 23.04                     | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 22.96                    | 23.05                       | 22.88                     |                        |             |
| 40              | QPSK       | 1       | 214       | 22.89                    | 22.95                       | 22.88                     |                        |             |
| 40              | QPSK       | 108     | 0         | 22.37                    | 22.45                       | 22.35                     |                        |             |
| 40              | QPSK       | 108     | 54        | 22.87                    | 22.75                       | 22.81                     | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.38                    | 22.44                       | 22.36                     | 23.5                   | 0.5         |
| 40              | QPSK       | 216     | 0         | 22.41                    | 22.45                       | 22.37                     | 23.5                   | 0.5         |
| 40              | 16QAM      | 1       | 1         | 22.81                    | 22.71                       | 22.84                     | 23.5                   | 0.5         |
| 40              | 64QAM      | 1       | 1         | 21.10                    | 21.16                       | 21.13                     | 22.0                   | 2.0         |
| 40              | 256QAM     | 1       | 1         | 19.07                    | 19.13                       | 19.05                     | 20.0                   | 4.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 35              | QPSK       | 1       | 1         | 22.95                    | 23.04                       | 22.97                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 22.94                    | 23.03                       | 22.94                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 22.94                    | 23.03                       | 22.95                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 345000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 22.92                    | 22.99                       | 22.96                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 345000                      | 354000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 22.91                    | 23.00                       | 22.94                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 346000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 22.98                    | 23.03                       | 22.91                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                   | 345000                      | 350000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 22.90                    | 23.04                       | 22.95                     | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 1702.5                   |                             |                           | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1702.5                   |                             |                           |                        |             |
| 15              | PlZ BPSK   | 1       | 1         |                          |                             | 22.88                     |                        |             |
| 15              | PlZ BPSK   | 1       | 40        |                          |                             | 22.95                     |                        |             |
| 15              | PlZ BPSK   | 1       | 77        |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 0         |                          |                             | 22.75                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 22        |                          |                             | 22.76                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 36      | 43        |                          |                             | 22.73                     | 24.0                   | 0.0         |
| 15              | PlZ BPSK   | 75      | 0         |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         |                          |                             | 22.97                     | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        |                          |                             | 22.92                     |                        |             |
| 15              | QPSK       | 1       | 77        |                          |                             | 22.81                     |                        |             |
| 15              | QPSK       | 36      | 0         |                          |                             | 22.78                     |                        |             |
| 15              | QPSK       | 36      | 22        |                          |                             | 22.82                     | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        |                          |                             | 22.73                     | 24.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         |                          |                             | 22.80                     | 24.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         |                          |                             | 22.85                     | 24.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         |                          |                             | 21.75                     | 22.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         |                          |                             | 19.65                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 345000                   | 345000                      | 341000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1700                     |                             | 1705                      | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.84                    | 22.95                       | 22.86                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 339500                   | 340500                      | 341500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 22.98                    | 22.99                       | 22.99                     | 24.0                   | 0.0         |

| n70_Ant 1       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 1702.5                   |                        |                     |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.28                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 1       | 1         |                       | 23.30                    |                        | 24.0                | 0.0                 |          |
| 15              | Pl2 BPSK   | 1       | 40        |                       | 23.30                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 1       | 77        |                       | 23.25                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 36      | 0         |                       | 22.83                    |                        | 23.5                | 0.5                 |          |
| 15              | Pl2 BPSK   | 36      | 22        |                       | 23.15                    |                        | 24.0                | 0.0                 |          |
| 15              | Pl2 BPSK   | 36      | 43        |                       | 22.72                    |                        |                     |                     |          |
| 15              | Pl2 BPSK   | 75      | 0         |                       | 22.75                    |                        | 23.5                | 0.5                 |          |
| 15              | QPSK       | 1       | 1         |                       | 23.36                    |                        |                     |                     |          |
| 15              | QPSK       | 1       | 40        |                       | 23.30                    |                        | 24.0                | 0.0                 |          |
| 15              | QPSK       | 1       | 77        |                       | 23.25                    |                        |                     |                     |          |
| 15              | QPSK       | 36      | 0         |                       | 22.36                    |                        | 23.0                | 1.0                 |          |
| 15              | QPSK       | 36      | 22        |                       | 23.21                    |                        | 24.0                | 0.0                 |          |
| 15              | QPSK       | 36      | 43        |                       | 22.23                    |                        | 23.0                | 1.0                 |          |
| 15              | QPSK       | 75      | 0         |                       | 22.22                    |                        |                     |                     |          |
| 15              | 16QAM      | 1       | 1         |                       | 22.64                    |                        | 23.0                | 1.0                 |          |
| 15              | 64QAM      | 1       | 1         |                       | 21.29                    |                        | 21.5                | 2.5                 |          |
| 15              | 256QAM     | 1       | 1         |                       | 19.03                    |                        | 19.5                | 4.5                 |          |
| Channel         |            |         |           |                       | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB)            |          |
| Frequency (MHz) |            |         |           |                       | 1700                     | 1705                   |                     |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.28                    | 23.28                  | 23.22               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 339500                   | 340500                 | 341500              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 1699.5                   | 1702.5                 | 1707.5              |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 23.23                    | 23.33                  | 23.27               | 24.0                | 0.0      |

| n70_Ant 0       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 678                      | 680.5                  | 683                 |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.05                    | 23.07                  | 22.98               |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         |                       | 22.59                    | 22.60                  | 22.59               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       |                       | 22.63                    | 22.68                  | 22.65               |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         |                       | 22.65                    | 22.72                  | 22.69               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        |                       | 22.65                    | 22.74                  | 22.66               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        |                       | 22.46                    | 22.51                  | 22.49               |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         |                       | 22.66                    | 22.68                  | 22.62               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         |                       | 23.06                    | 23.12                  | 23.06               |                     |          |
| 30              | QPSK       | 1       | 80        |                       | 22.64                    | 22.65                  | 22.64               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       |                       | 22.66                    | 22.72                  | 22.67               |                     |          |
| 30              | QPSK       | 80      | 0         |                       | 22.66                    | 22.73                  | 22.71               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        |                       | 22.68                    | 22.75                  | 22.72               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        |                       | 22.38                    | 22.48                  | 22.39               | 24.0                | 0.0      |
| 30              | QPSK       | 160     | 0         |                       | 22.66                    | 22.71                  | 22.67               |                     |          |
| 30              | 16QAM      | 1       | 1         |                       | 22.99                    | 23.02                  | 22.95               | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         |                       | 22.01                    | 22.07                  | 22.04               | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         |                       | 20.07                    | 20.14                  | 20.09               | 20.5                | 3.5      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 137100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 675.5                    | 680.5                  | 685.5               |                     |          |
| 25              | QPSK       | 1       | 1         |                       | 23.06                    | 23.02                  | 22.98               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134600                   | 136100                 | 137600              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 673                      | 680.5                  | 686                 |                     |          |
| 20              | QPSK       | 1       | 1         |                       | 23.02                    | 23.04                  | 23.02               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 138100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 670.5                    | 680.5                  | 690.5               |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 22.98                    | 23.05                  | 22.95               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 134100                 | 135100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 668                      | 680.5                  | 693                 |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.02                    | 23.02                  | 23.00               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 136100                 | 139100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 664.5                    | 680.5                  | 695.5               |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 22.98                    | 23.08                  | 22.95               | 24.0                | 0.0      |

| n71_Ant 1       |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           |                       | 678                      | 680.5                  | 683                 |                     |          |
| Frequency (MHz) |            |         |           |                       | 23.05                    | 23.07                  | 22.98               |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         |                       | 22.02                    | 22.08                  | 22.00               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 158       |                       | 22.85                    | 22.89                  | 22.83               |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         |                       | 22.83                    | 22.91                  | 22.75               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        |                       | 22.92                    | 22.95                  | 22.79               | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        |                       | 22.86                    | 22.89                  | 22.69               |                     |          |
| 30              | Pl2 BPSK   | 160     | 0         |                       | 22.94                    | 23.01                  | 22.83               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         |                       | 23.06                    | 23.30                  | 23.15               |                     |          |
| 30              | QPSK       | 1       | 80        |                       | 22.93                    | 23.02                  | 22.86               | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 158       |                       | 22.93                    | 22.95                  | 22.83               |                     |          |
| 30              | QPSK       | 80      | 0         |                       | 22.99                    | 22.88                  | 22.54               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        |                       | 22.90                    | 22.96                  | 22.80               | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        |                       | 22.62                    | 22.65                  | 22.35               | 24.0                | 0.0      |
| 30              | QPSK       | 160     | 0         |                       | 22.94                    | 22.98                  | 22.97               |                     |          |
| 30              | 16QAM      | 1       | 1         |                       | 22.90                    | 22.98                  | 22.84               | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         |                       | 21.38                    | 21.43                  | 21.26               | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         |                       | 19.39                    | 19.42                  | 19.30               | 20.5                | 3.5      |
| Channel         |            |         |           |                       | 135100                   | 136100                 | 137100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 673                      | 680.5                  | 686                 |                     |          |
| 25              | QPSK       | 1       | 1         |                       | 23.18                    | 23.27                  | 23.09               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134600                   | 136100                 | 137600              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 671                      | 680.5                  | 686                 |                     |          |
| 20              | QPSK       | 1       | 1         |                       | 23.20                    | 23.24                  | 23.06               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 134100                   | 136100                 | 138100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 670.5                    | 680.5                  | 690.5               |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 23.26                    | 23.27                  | 23.09               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 134100                 | 135100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 666                      | 680.5                  | 693                 |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 23.18                    | 23.24                  | 23.05               | 24.0                | 0.0      |
| Channel         |            |         |           |                       | 133100                   | 136100                 | 139100              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           |                       | 664.5                    | 680.5                  | 695.5               |                     |          |
| 5               | QPSK       | 1       | 1         |                       | 23.23                    | 23.23                  | 23.05               | 24.0                | 0.0      |



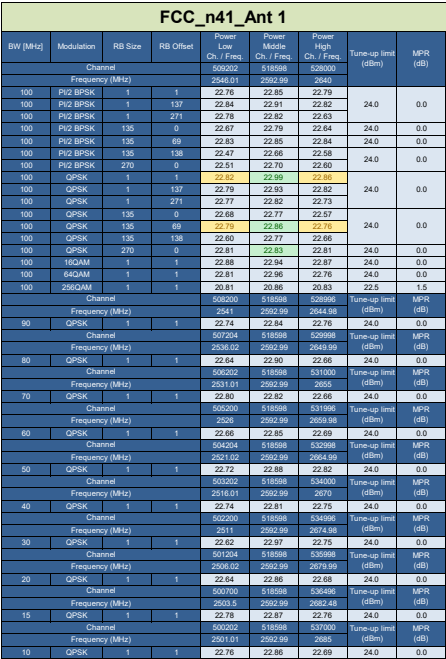
| n38_Ant 9       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 22.83                 | 22.92                    | 22.88                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 22.81                 | 22.93                    | 22.86                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 22.78                 | 22.68                    | 22.58                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 22.78                 | 22.73                    | 22.63                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 22.77                 | 22.79                    | 22.77                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 22.84                 | 22.65                    | 22.63                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 22.74                 | 22.75                    | 22.68                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.90                 | 22.95                    | 22.91                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 22.88                 | 22.93                    | 22.90                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 22.80                 | 22.73                    | 22.69                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 22.74                 | 22.75                    | 22.71                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 22.76                 | 22.80                    | 22.76                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 22.88                 | 22.70                    | 22.63                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 22.74                 | 22.75                    | 22.70                  | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.81                 | 22.85                    | 22.82                  | 24.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 22.67                 | 22.77                    | 22.75                  | 24.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 20.58                 | 20.64                    | 20.58                  | 22.0                | 2.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580.01               | 2595                     | 2604.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.81                 | 22.85                    | 22.89                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 520000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.83                 | 22.87                    | 22.82                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2595                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.84                 | 22.85                    | 22.87                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 518000                   | 522996                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2595                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.85                 | 22.90                    | 22.84                  | 24.0                | 0.0      |  |

| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2579.98               | 2585                     | 2590.02                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 22.79                 | 22.88                    | 22.79                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 22.94                 | 22.92                    | 22.90                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 22.83                 | 22.91                    | 22.86                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 22.84                 | 22.94                    | 22.93                  | 23.5                | 0.5      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 22.92                 | 22.95                    | 22.91                  | 24.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 22.54                 | 22.58                    | 22.52                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 22.44                 | 22.54                    | 22.52                  | 23.5                | 0.5      |  |
| 40              | QPSK       | 1       | 1         | 22.93                 | 22.95                    | 22.95                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 22.82                 | 22.84                    | 22.80                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 22.81                 | 22.89                    | 22.84                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 22.38                 | 22.39                    | 22.33                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 22.92                 | 22.93                    | 22.88                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 22.29                 | 22.30                    | 22.26                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 22.28                 | 22.33                    | 22.31                  | 23.0                | 1.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.40                 | 22.48                    | 22.42                  | 23.0                | 1.0      |  |
| 40              | 64QAM      | 1       | 1         | 21.04                 | 21.05                    | 20.96                  | 21.5                | 2.5      |  |
| 40              | 256QAM     | 1       | 1         | 18.91                 | 18.98                    | 18.95                  | 19.5                | 4.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580.01               | 2595                     | 2604.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.73                 | 22.80                    | 22.78                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 520000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.80                 | 22.88                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515002                | 518000                   | 521998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2595                     | 2614.98                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.76                 | 22.86                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 519000                   | 522996                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2595                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.80                 | 22.82                    | 22.85                  | 24.0                | 0.0      |  |

| FCC_n41_Ant 9   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 5546.02               | 518996                   | 520000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2562.99                  | 2560                   |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.71                 | 22.81                    | 22.80                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 22.74                 | 22.85                    | 22.75                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.58                 | 22.73                    | 22.58                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 22.60                 | 22.74                    | 22.71                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 22.67                 | 22.80                    | 22.61                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 22.61                 | 22.66                    | 22.65                  | 24.0                | 0.0      |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.62                 | 22.65                    | 22.46                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 22.71                 | 22.97                    | 22.83                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.66                 | 22.88                    | 22.85                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 22.64                 | 22.73                    | 22.53                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.57                 | 22.72                    | 22.58                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.66                 | 22.63                    | 22.73                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.54                 | 22.61                    | 22.58                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.53                 | 22.57                    | 22.43                  | 23.5                | 0.5      |  |
| 100             | 16QAM      | 1       | 1         | 22.78                 | 22.86                    | 22.78                  | 24.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 22.69                 | 22.84                    | 22.79                  | 24.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 22.81                 | 22.88                    | 22.80                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 506200                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2562.99                  | 2564.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.58                 | 22.89                    | 22.72                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2562.99                  | 2564.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.70                 | 22.92                    | 22.87                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 504202                | 518996                   | 521000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2562.99                  | 2565                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.67                 | 22.92                    | 22.71                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518996                   | 521996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2526                  | 2562.99                  | 2565.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.65                 | 22.95                    | 22.82                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2562.99                  | 2564.98                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 22.53                 | 22.79                    | 22.61                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518996                   | 520000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2562.99                  | 2570                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.62                 | 22.86                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2562.99                  | 2574.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.55                 | 22.81                    | 22.74                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2562.99                  | 2579.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.58                 | 22.85                    | 22.71                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500200                | 518996                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2562.99                  | 2582.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.55                 | 22.91                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 499200                | 518996                   | 521000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.51               | 2562.99                  | 2588                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.67                 | 22.89                    | 22.89                  | 24.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.02                | 27.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2540                   |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 1         | 25.68                 | 25.82                    | 25.72                  | 27.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 1       | 137       | 25.96                 | 25.90                    | 25.80                  |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 271       | 25.93                 | 25.77                    | 25.73                  | 26.5                | 0.5      |  |
| 100                | PQ2 BPSK   | 135     | 0         | 25.71                 | 25.69                    | 25.63                  |                     |          |  |
| 100                | PQ2 BPSK   | 135     | 69        | 25.73                 | 25.76                    | 25.71                  | 27.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 138       | 25.70                 | 25.68                    | 25.60                  | 26.5                | 0.5      |  |
| 100                | PQ2 BPSK   | 270     | 0         | 25.70                 | 25.55                    | 25.52                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 25.70                 | 25.01                    | 25.33                  | 27.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       | 25.75                 | 25.92                    | 25.87                  |                     |          |  |
| 100                | QPSK       | 1       | 271       | 25.96                 | 25.81                    | 25.73                  | 27.0                | 0.0      |  |
| 100                | QPSK       | 135     | 0         | 25.62                 | 25.66                    | 25.60                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 25.75                 | 25.75                    | 25.71                  | 26.5                | 0.5      |  |
| 100                | QPSK       | 135     | 138       | 25.73                 | 25.60                    | 25.55                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 25.66                 | 25.70                    | 25.63                  | 26.5                | 0.5      |  |
| 100                | 16QAM      | 1       | 1         | 25.78                 | 25.86                    | 25.83                  | 27.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 24.85                 | 24.52                    | 24.62                  | 26.0                | 1.0      |  |
| 100                | 256QAM     | 1       | 1         | 22.71                 | 22.84                    | 22.81                  | 24.0                | 3.0      |  |
| Channel            |            |         |           | 506200                | 518998                   | 528996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2544                  | 2592.99                  | 2544.98                | (dBm)               | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 25.90                 | 25.89                    | 25.89                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2540.99                | (dBm)               | (dB)     |  |
| 80                 | QPSK       | 1       | 1         | 25.93                 | 25.93                    | 25.86                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 508202                | 518998                   | 529002                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 70                 | QPSK       | 1       | 1         | 25.97                 | 25.92                    | 25.90                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 509200                | 518998                   | 531996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2524                  | 2592.99                  | 2594.98                | (dBm)               | (dB)     |  |
| 60                 | QPSK       | 1       | 1         | 25.91                 | 25.97                    | 25.85                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518998                   | 532996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2584.99                | (dBm)               | (dB)     |  |
| 50                 | QPSK       | 1       | 1         | 25.93                 | 25.82                    | 25.84                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2570                   | (dBm)               | (dB)     |  |
| 40                 | QPSK       | 1       | 1         | 25.90                 | 25.96                    | 25.87                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 502200                | 518998                   | 535996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2574.98                | (dBm)               | (dB)     |  |
| 30                 | QPSK       | 1       | 1         | 25.95                 | 25.95                    | 25.83                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518998                   | 535996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2508.02               | 2592.99                  | 2579.99                | (dBm)               | (dB)     |  |
| 20                 | QPSK       | 1       | 1         | 25.92                 | 25.95                    | 25.85                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2582.48                | (dBm)               | (dB)     |  |
| 15                 | QPSK       | 1       | 1         | 25.93                 | 25.81                    | 25.84                  | 27.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2585                   | (dBm)               | (dB)     |  |
| 10                 | QPSK       | 1       | 1         | 25.97                 | 25.95                    | 25.86                  | 27.0                | 0.0      |  |





| FCC_n41 HPUE_Ant 1 |            |         |           |                      |                       |                      |                       |                     |          |
|--------------------|------------|---------|-----------|----------------------|-----------------------|----------------------|-----------------------|---------------------|----------|
| IMR (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Low Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 100                | PV2 BPSK   | 1       | 1         | 25.38                | 25.40                 | 25.32                |                       |                     |          |
| 100                | PV2 BPSK   | 1       | 137       | 25.27                | 25.30                 | 25.28                |                       |                     | 0.0      |
| 100                | PV2 BPSK   | 135     | 0         | 25.32                | 25.34                 | 25.31                |                       |                     |          |
| 100                | QPSK       | 135     | 0         | 24.72                | 24.76                 | 24.68                |                       | 26.5                | 0.5      |
| 100                | PV2 BPSK   | 135     | 69        | 25.28                | 25.33                 | 25.29                |                       | 27.0                | 0.5      |
| 100                | PV2 BPSK   | 135     | 136       | 24.60                | 24.69                 | 24.67                |                       | 26.5                | 0.5      |
| 100                | PV2 BPSK   | 270     | 0         | 24.57                | 24.54                 | 24.58                |                       |                     |          |
| 100                | QPSK       | 1       | 1         | 25.43                | 25.46                 | 25.45                |                       |                     |          |
| 100                | QPSK       | 1       | 137       | 25.27                | 25.32                 | 25.28                |                       | 27.0                | 0.0      |
| 100                | QPSK       | 1       | 271       | 25.44                | 25.43                 | 25.20                |                       |                     |          |
| 100                | QPSK       | 135     | 0         | 24.22                | 24.28                 | 24.21                |                       |                     |          |
| 100                | QPSK       | 135     | 69        | 25.26                | 25.35                 | 25.21                |                       | 27.0                | 0.0      |
| 100                | QPSK       | 135     | 136       | 24.04                | 24.14                 | 24.12                |                       |                     |          |
| 100                | QPSK       | 270     | 0         | 24.33                | 24.36                 | 24.32                |                       | 26.0                | 1.0      |
| 100                | 16QAM      | 1       | 1         | 24.48                | 24.55                 | 24.46                |                       | 26.0                | 1.0      |
| 100                | 64QAM      | 1       | 1         | 22.84                | 22.89                 | 22.86                |                       | 24.5                | 2.5      |
| 100                | 256QAM     | 1       | 1         | 20.81                | 20.86                 | 20.83                |                       | 22.5                | 4.5      |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 90                 | QPSK       | 1       | 1         | 50.704               | 51.658                | 50.998               |                       | Tune-up limit (dBm) | MPR (dB) |
| 90                 | QPSK       | 1       | 1         | 50.702               | 51.657                | 50.999               |                       | Tune-up limit (dBm) | MPR (dB) |
| 80                 | QPSK       | 1       | 1         | 25.35                | 25.46                 | 25.40                |                       | 27.0                | 0.0      |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 70                 | QPSK       | 1       | 1         | 25.1101              | 25.692                | 25.1005              |                       | Tune-up limit (dBm) | MPR (dB) |
| 70                 | QPSK       | 1       | 1         | 25.1402              | 25.643                | 25.30                |                       | 27.0                | 0.0      |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 60                 | QPSK       | 1       | 1         | 25.26                | 25.62                 | 25.698               |                       | Tune-up limit (dBm) | MPR (dB) |
| 60                 | QPSK       | 1       | 1         | 25.36                | 25.43                 | 25.35                |                       | 27.0                | 0.0      |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 50                 | QPSK       | 1       | 1         | 50.7025              | 51.659                | 50.999               |                       | Tune-up limit (dBm) | MPR (dB) |
| 50                 | QPSK       | 1       | 1         | 50.7025              | 51.659                | 50.999               |                       | Tune-up limit (dBm) | MPR (dB) |
| 50                 | QPSK       | 1       | 1         | 25.132               | 25.622                | 25.604               |                       | Tune-up limit (dBm) | MPR (dB) |
| 50                 | QPSK       | 1       | 1         | 25.37                | 25.39                 | 25.42                |                       | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 40                 | QPSK       | 1       | 1         | 50.5022              | 51.658                | 50.400               |                       | Tune-up limit (dBm) | MPR (dB) |
| 40                 | QPSK       | 1       | 1         | 50.5022              | 51.658                | 50.400               |                       | Tune-up limit (dBm) | MPR (dB) |
| 40                 | QPSK       | 1       | 1         | 25.34                | 25.45                 | 25.35                |                       | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 30                 | QPSK       | 1       | 1         | 50.2020              | 51.658                | 50.4966              |                       | Tune-up limit (dBm) | MPR (dB) |
| 30                 | QPSK       | 1       | 1         | 50.211               | 51.672                | 50.474               |                       | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 20                 | QPSK       | 1       | 1         | 50.1024              | 51.658                | 50.5958              |                       | Tune-up limit (dBm) | MPR (dB) |
| 20                 | QPSK       | 1       | 1         | 25.68                | 25.62                 | 25.79                |                       | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 15                 | QPSK       | 1       | 1         | 25.03                | 25.62                 | 25.62                |                       | Tune-up limit (dBm) | MPR (dB) |
| 15                 | QPSK       | 1       | 1         | 25.35                | 25.45                 | 25.35                |                       | 27.0                | 0.0      |
| Channel            |            |         |           |                      |                       |                      |                       |                     |          |
| Frequency (MHz)    |            |         |           |                      |                       |                      |                       |                     |          |
| 10                 | QPSK       | 1       | 1         | 25.16                | 25.35                 | 25.35                |                       | 27.0                | 0.0      |

[illegible]



| FCC_n41 HPUE_Ant 2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 21.59                 | 21.53                    | 21.71                  |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 21.49                 | 21.51                    | 21.60                  | 23.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 271       | 21.36                 | 21.46                    | 21.44                  |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 21.46                 | 21.55                    | 21.60                  | 23.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 21.52                 | 21.59                    | 21.73                  | 23.0                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 21.47                 | 21.43                    | 21.47                  |                     |          |  |
| 100                | Pl2 BPSK   | 270     | 0         | 21.35                 | 21.50                    | 21.49                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 21.58                 | 21.58                    | 21.75                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 21.44                 | 21.49                    | 21.55                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 21.45                 | 21.45                    | 21.56                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 21.50                 | 21.51                    | 21.48                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 21.71                 | 21.70                    | 21.72                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 21.44                 | 21.48                    | 21.47                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 21.46                 | 21.61                    | 21.63                  | 23.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 21.53                 | 21.59                    | 21.66                  | 23.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 21.42                 | 21.51                    | 21.58                  | 23.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 19.90                 | 19.95                    | 19.94                  | 21.5                | 1.5      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 506200                | 518598                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 21.47                 | 21.53                    | 21.67                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 21.45                 | 21.60                    | 21.68                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 21.39                 | 21.59                    | 21.64                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                 | QPSK       | 1       | 1         | 21.45                 | 21.49                    | 21.63                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 21.45                 | 21.50                    | 21.60                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 502200                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                 | QPSK       | 1       | 1         | 21.43                 | 21.58                    | 21.66                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                 | QPSK       | 1       | 1         | 21.40                 | 21.51                    | 21.62                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 500700                | 518598                   | 536498                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2652.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 21.48                 | 21.58                    | 21.61                  | 23.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 21.36                 | 21.48                    | 21.62                  | 23.0                | 0.0      |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.17                 | 22.24                    | 22.15                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 22.17                 | 22.25                    | 22.17                  | 23.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.16                 | 22.29                    | 22.16                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 22.21                 | 22.25                    | 22.15                  | 23.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 22.20                 | 22.28                    | 22.10                  | 23.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 22.16                 | 22.28                    | 22.11                  |                     |          |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.16                 | 22.29                    | 22.11                  | 23.5                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 22.28                 | 22.33                    | 22.20                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.22                 | 22.30                    | 22.10                  | 23.5                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 22.18                 | 22.30                    | 22.13                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.20                 | 22.24                    | 22.13                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.22                 | 22.28                    | 22.13                  | 23.5                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.17                 | 22.24                    | 22.14                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.18                 | 22.23                    | 22.12                  | 23.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 22.16                 | 22.31                    | 22.10                  | 23.5                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.90                 | 21.92                    | 21.85                  | 23.0                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0                | 2.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506200                | 518598                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80              | QPSK       | 1       | 1         | 22.12                 | 22.28                    | 22.15                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80              | QPSK       | 1       | 1         | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.24                 | 22.30                    | 22.17                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60              | QPSK       | 1       | 1         | 22.24                 | 22.27                    | 22.10                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50              | QPSK       | 1       | 1         | 22.20                 | 22.28                    | 22.10                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.24                 | 22.23                    | 22.18                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 22.22                 | 22.28                    | 22.12                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518598                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 22.23                 | 22.25                    | 22.10                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500700                | 518598                   | 536498                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2652.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.21                 | 22.30                    | 22.16                  | 23.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.22                 | 22.24                    | 22.12                  | 23.5                | 0.0      |  |

| FCC_n41 HPUE_Ant 6 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         | 24.25                 | 24.30                    | 24.18                  |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       | 24.30                 | 24.33                    | 24.18                  | 25.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 1       | 271       | 24.25                 | 24.29                    | 23.58                  |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         | 23.81                 | 23.78                    | 23.55                  | 25.0                | 0.5      |  |
| 100                | Pl2 BPSK   | 135     | 69        | 24.31                 | 24.25                    | 24.21                  | 25.5                | 0.0      |  |
| 100                | Pl2 BPSK   | 135     | 138       | 23.78                 | 23.80                    | 23.76                  |                     |          |  |
| 100                | Pl2 BPSK   | 270     | 0         | 23.72                 | 23.75                    | 23.66                  | 25.0                | 0.5      |  |
| 100                | QPSK       | 1       | 1         | 24.31                 | 24.36                    | 24.25                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 24.25                 | 24.31                    | 24.20                  | 25.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 24.30                 | 23.98                    | 23.05                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 23.15                 | 23.24                    | 23.08                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 24.10                 | 24.28                    | 24.15                  | 25.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 23.22                 | 23.23                    | 22.98                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 23.13                 | 23.15                    | 22.90                  | 24.5                | 1.0      |  |
| 100                | 16QAM      | 1       | 1         | 23.33                 | 23.36                    | 23.22                  | 24.5                | 1.0      |  |
| 100                | 64QAM      | 1       | 1         | 21.90                 | 21.92                    | 21.85                  | 23.0                | 2.5      |  |
| 100                | 256QAM     | 1       | 1         | 19.80                 | 19.82                    | 19.75                  | 21.0                | 4.5      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 506200                | 518598                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 24.25                 | 24.23                    | 24.18                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 24.34                 | 24.34                    | 24.17                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 508002                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                 | QPSK       | 1       | 1         | 25.31                 | 25.02                    | 25.05                  |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 24.22                 | 24.22                    | 24.14                  | 25.5                | 0.0      |  |
| 70                 | QPSK       | 1       | 1         | 25.30                 | 25.02                    | 25.05                  |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.06                 | 24.99                    | 24.99                  | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 24.29                 | 24.22                    | 24.20                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.02                 | 25.02                    | 25.02                  | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 25.12                 | 25.02                    | 25.04                  |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.12                 | 25.02                    | 25.04                  | Tune-up limit (dBm) | MPR (dB) |  |
| 50                 | QPSK       | 1       | 1         | 24.30                 | 24.20                    | 24.22                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 505202                | 518598                   | 524000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                 | QPSK       | 1       | 1         | 24.26                 | 24.02                    | 24.01                  |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 24.26                 | 24.34                    | 24.18                  | 25.5                | 0.0      |  |
| 40                 | QPSK       | 1       | 1         | 26.22                 | 26.08                    | 26.08                  |                     |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 506200                | 518598                   | 524998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                 | QPSK       | 1       | 1         | 24.21                 | 24.25                    | 24.21                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.06                 | 25.02                    | 24.99                  | Tune-up limit (dBm) | MPR (dB) |  |
| 20                 | QPSK       | 1       | 1         | 24.23                 | 24.24                    | 24.18                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.03                 | 25.02                    | 24.98                  | Tune-up limit (dBm) | MPR (dB) |  |
| 15                 | QPSK       | 1       | 1         | 24.27                 | 24.24                    | 24.18                  | 25.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 25.03                 | 25.02                    | 24.98                  | Tune-up limit (dBm) | MPR (dB) |  |
| 10                 | QPSK       | 1       | 1         | 24.27                 | 24.33                    | 24.10                  | 25.5                | 0.0      |  |

| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 21.69                 | 22.00                    | 21.71                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 137       | 21.66                 | 22.00                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 1       | 271       | 21.71                 | 21.96                    | 21.59                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 0         | 21.66                 | 22.04                    | 21.67                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 69        | 21.77                 | 22.03                    | 21.59                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 138       | 21.67                 | 21.98                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | PI2 BPSK   | 270     | 0         | 21.73                 | 22.01                    | 21.66                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 21.75                 | 22.07                    | 21.74                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.74                 | 22.02                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 21.76                 | 22.02                    | 21.71                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 21.66                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.72                 | 22.02                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 21.68                 | 21.98                    | 21.62                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 21.76                 | 21.96                    | 21.66                  | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.64                 | 21.97                    | 21.73                  | 23.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 1.5      |  |
| Channel         |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2547                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90              | QPSK       | 1       | 1         | 21.72                 | 22.00                    | 21.64                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80              | QPSK       | 1       | 1         | 21.73                 | 21.93                    | 21.70                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dB)     |  |
| 70              | QPSK       | 1       | 1         | 21.78                 | 21.96                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2524                  | 2592.99                  | 2658.98                | (dBm)               | (dB)     |  |
| 60              | QPSK       | 1       | 1         | 21.75                 | 21.95                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50              | QPSK       | 1       | 1         | 21.71                 | 22.00                    | 21.73                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40              | QPSK       | 1       | 1         | 21.64                 | 22.01                    | 21.72                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30              | QPSK       | 1       | 1         | 21.69                 | 21.96                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20              | QPSK       | 1       | 1         | 21.74                 | 21.90                    | 21.61                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15              | QPSK       | 1       | 1         | 21.74                 | 22.04                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10              | QPSK       | 1       | 1         | 21.66                 | 22.03                    | 21.72                  | 23.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           | 500202                | 518598                   | 526000                 |                     |          |  |
| Frequency (MHz)     |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 1         | 23.76                 | 23.90                    | 23.60                  |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 137       | 23.64                 | 23.85                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 1       | 271       | 23.73                 | 23.89                    | 23.62                  |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 0         | 23.47                 | 23.56                    | 23.31                  | 24.5                | 0.5      |  |
| 100                 | PI2 BPSK   | 135     | 69        | 23.69                 | 23.87                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 135     | 138       | 23.35                 | 23.60                    | 23.27                  | 24.5                | 0.5      |  |
| 100                 | PI2 BPSK   | 270     | 0         | 23.45                 | 23.60                    | 23.22                  |                     |          |  |
| 100                 | QPSK       | 1       | 1         | 23.75                 | 23.99                    | 23.68                  |                     |          |  |
| 100                 | QPSK       | 1       | 137       | 23.65                 | 23.89                    | 23.51                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 1       | 271       | 23.70                 | 23.88                    | 23.59                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 22.68                 | 22.80                    | 22.43                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 23.60                 | 23.95                    | 23.61                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 138       | 22.75                 | 22.88                    | 22.37                  |                     |          |  |
| 100                 | QPSK       | 270     | 0         | 22.66                 | 22.94                    | 22.52                  | 24.0                | 1.0      |  |
| 100                 | 16QAM      | 1       | 1         | 22.66                 | 22.97                    | 22.64                  | 24.0                | 1.0      |  |
| 100                 | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 2.5      |  |
| 100                 | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 3.5      |  |
| Channel             |            |         |           | 506200                | 518598                   | 526996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2547                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90                  | QPSK       | 1       | 1         | 23.65                 | 23.85                    | 23.52                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 507204                | 518598                   | 526998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80                  | QPSK       | 1       | 1         | 23.67                 | 23.83                    | 23.50                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 502202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dB)     |  |
| 70                  | QPSK       | 1       | 1         | 23.62                 | 23.87                    | 23.59                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2524                  | 2592.99                  | 2658.98                | (dBm)               | (dB)     |  |
| 60                  | QPSK       | 1       | 1         | 23.65                 | 23.90                    | 23.54                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50                  | QPSK       | 1       | 1         | 23.60                 | 23.81                    | 23.47                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40                  | QPSK       | 1       | 1         | 23.65                 | 23.88                    | 23.56                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30                  | QPSK       | 1       | 1         | 23.71                 | 23.91                    | 23.58                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20                  | QPSK       | 1       | 1         | 23.59                 | 23.93                    | 23.53                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dB)     |  |
| 15                  | QPSK       | 1       | 1         | 23.66                 | 23.84                    | 23.49                  | 25.0                | 0.0      |  |
| Channel             |            |         |           | 510202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dB)     |  |
| 10                  | QPSK       | 1       | 1         | 23.60                 | 23.79                    | 23.56                  | 25.0                | 0.0      |  |



| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 1         | 23.09                 | 23.11                    | 23.10                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 53        | 23.20                 | 23.21                    | 23.15                  |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 104       | 23.05                 | 23.20                    | 23.06                  |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 0         | 22.96                 | 22.99                    | 22.94                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 28        | 22.85                 | 23.01                    | 22.88                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 56        | 22.93                 | 22.95                    | 22.91                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 100     | 0         | 22.86                 | 22.90                    | 22.87                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 1         | 23.18                 | 23.25                    | 23.17                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.12                  | 24.0                | 0.0      |  |  |  |
| 40               | QPSK       | 1       | 104       | 23.03                 | 23.24                    | 23.10                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 0         | 23.15                 | 23.18                    | 23.13                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 28        | 23.16                 | 23.20                    | 23.14                  | 24.0                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 56        | 23.10                 | 23.11                    | 23.08                  | 24.0                | 0.0      |  |  |  |
| 40               | QPSK       | 100     | 0         | 23.14                 | 23.18                    | 23.12                  |                     |          |  |  |  |
| 40               | 16QAM      | 1       | 1         | 23.15                 | 23.18                    | 23.15                  |                     |          |  |  |  |
| 40               | 64QAM      | 1       | 1         | 22.86                 | 22.88                    | 22.82                  | 23.5                | 0.5      |  |  |  |
| 40               | 256QAM     | 1       | 1         | 21.10                 | 21.11                    | 21.18                  | 21.5                | 2.5      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 3565.02               | 3624.99                  | 3684.99                | 24.0                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 3565.01               | 3624.99                  | 3690                   | 24.0                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 3565                  | 3624.99                  | 3694.98                | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 23.05                 | 23.12                    | 22.97                  | 24.0                | 0.0      |  |  |  |

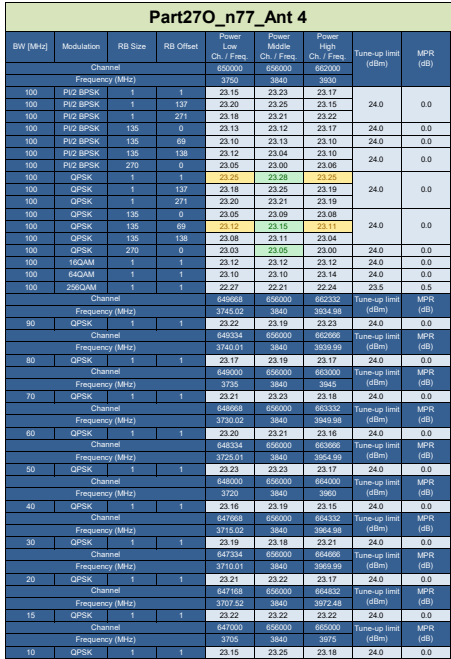
| Part96_n48_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]         | Modulation | Channel | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 1         | 22.71                 | 22.53                    | 22.30                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 53        | 22.54                 | 22.51                    | 22.30                  |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 1       | 104       | 22.27                 | 22.28                    | 22.29                  |                     |          |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 0         | 22.07                 | 22.12                    | 22.06                  | 23.5                | 0.5      |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 28        | 22.50                 | 22.51                    | 22.28                  | 24.0                | 0.0      |  |  |  |
| 40               | Pl/2 BPSK  | 50      | 56        | 21.98                 | 22.07                    | 21.99                  | 23.5                | 0.5      |  |  |  |
| 40               | Pl/2 BPSK  | 100     | 0         | 21.71                 | 21.83                    | 21.72                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 1         | 22.73                 | 22.55                    | 22.34                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 53        | 22.44                 | 22.34                    | 22.28                  | 24.0                | 0.0      |  |  |  |
| 40               | QPSK       | 1       | 104       | 22.31                 | 22.17                    | 22.16                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 0         | 21.18                 | 21.23                    | 21.20                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 28        | 22.04                 | 22.12                    | 22.71                  | 24.0                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 56        | 20.81                 | 20.88                    | 20.82                  | 23.0                | 1.0      |  |  |  |
| 40               | QPSK       | 100     | 0         | 21.45                 | 21.40                    | 21.35                  |                     |          |  |  |  |
| 40               | 16QAM      | 1       | 1         | 20.39                 | 20.25                    | 20.53                  |                     |          |  |  |  |
| 40               | 64QAM      | 1       | 1         | 18.71                 | 18.62                    | 18.92                  | 21.5                | 2.5      |  |  |  |
| 40               | 256QAM     | 1       | 1         | 16.87                 | 16.83                    | 17.12                  | 19.5                | 4.5      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 30               | QPSK       | 1       | 1         | 22.68                 | 22.47                    | 22.32                  | 24.0                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 3565.02               | 3624.99                  | 3684.99                | 24.0                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 20               | QPSK       | 1       | 1         | 3560.01               | 3624.99                  | 3690                   | 24.0                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 22.68                 | 22.49                    | 22.26                  | 24.0                | 0.0      |  |  |  |

| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40                | Pl/2 BPSK  | 1       | 1         | 23.00                 | 23.00                    | 22.99                  | 24.0                | 0.0      |  |  |  |
| 40                | Pl/2 BPSK  | 1       | 53        | 23.03                 | 23.05                    | 23.04                  |                     |          |  |  |  |
| 40                | Pl/2 BPSK  | 1       | 104       | 23.00                 | 23.02                    | 23.02                  |                     |          |  |  |  |
| 40                | Pl/2 BPSK  | 50      | 0         | 22.83                 | 22.91                    | 22.80                  | 23.5                | 0.5      |  |  |  |
| 40                | Pl/2 BPSK  | 50      | 28        | 22.83                 | 22.89                    | 22.80                  | 24.0                | 0.0      |  |  |  |
| 40                | Pl/2 BPSK  | 50      | 56        | 22.83                 | 22.90                    | 22.82                  | 23.5                | 0.5      |  |  |  |
| 40                | Pl/2 BPSK  | 100     | 0         | 22.81                 | 22.87                    | 22.84                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 1         | 23.08                 | 23.10                    | 23.05                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 53        | 22.98                 | 23.02                    | 22.93                  | 24.0                | 0.0      |  |  |  |
| 40                | QPSK       | 1       | 104       | 23.01                 | 23.09                    | 23.03                  |                     |          |  |  |  |
| 40                | QPSK       | 50      | 0         | 22.84                 | 22.90                    | 22.82                  |                     |          |  |  |  |
| 40                | QPSK       | 50      | 28        | 22.85                 | 22.93                    | 22.86                  | 24.0                | 0.0      |  |  |  |
| 40                | QPSK       | 50      | 56        | 22.74                 | 22.83                    | 22.78                  | 24.0                | 0.0      |  |  |  |
| 40                | QPSK       | 100     | 0         | 22.86                 | 22.90                    | 22.86                  |                     |          |  |  |  |
| 40                | 16QAM      | 1       | 1         | 20.93                 | 21.03                    | 20.94                  |                     |          |  |  |  |
| 40                | 64QAM      | 1       | 1         | 18.44                 | 18.52                    | 18.50                  | 21.5                | 2.5      |  |  |  |
| 40                | 256QAM     | 1       | 1         | 17.48                 | 17.55                    | 17.52                  | 19.5                | 4.5      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30                | QPSK       | 1       | 1         | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 30                | QPSK       | 1       | 1         | 22.99                 | 23.04                    | 23.01                  | 24.0                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20                | QPSK       | 1       | 1         | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 20                | QPSK       | 1       | 1         | 3560.01               | 3624.99                  | 3690                   | 24.0                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10                | QPSK       | 1       | 1         | 23.03                 | 23.08                    | 22.99                  | 24.0                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10                | QPSK       | 1       | 1         | 23.00                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |  |  |



| Part96_n48_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 630000                | 641666                   | 645332                 | 3570                |          |  |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | PI2 BPSK   | 1       | 1         | 22.59                 | 22.67                    | 22.57                  | 24.0                | 0.0      |  |
| 40               | PI2 BPSK   | 1       | 53        | 22.46                 | 22.61                    | 22.47                  |                     |          |  |
| 40               | PI2 BPSK   | 1       | 104       | 22.50                 | 22.62                    | 22.49                  |                     |          |  |
| 40               | PI2 BPSK   | 50      | 0         | 21.77                 | 21.82                    | 21.73                  | 23.5                | 0.5      |  |
| 40               | PI2 BPSK   | 50      | 28        | 22.58                 | 22.65                    | 22.58                  | 24.0                | 0.0      |  |
| 40               | PI2 BPSK   | 50      | 56        | 21.86                 | 21.70                    | 21.61                  | 23.5                | 0.5      |  |
| 40               | PI2 BPSK   | 100     | 0         | 21.36                 | 21.43                    | 21.39                  |                     |          |  |
| 40               | QPSK       | 1       | 1         | 22.65                 | 22.72                    | 22.55                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 22.58                 | 22.68                    | 22.31                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 22.33                 | 22.47                    | 22.34                  | 24.0                | 0.0      |  |
| 40               | QPSK       | 50      | 0         | 20.76                 | 20.82                    | 20.72                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 22.55                 | 22.61                    | 22.57                  |                     |          |  |
| 40               | QPSK       | 50      | 56        | 20.76                 | 20.88                    | 20.81                  | 23.0                | 1.0      |  |
| 40               | QPSK       | 100     | 0         | 21.62                 | 21.66                    | 21.62                  |                     |          |  |
| 40               | 16QAM      | 1       | 1         | 19.73                 | 19.77                    | 19.75                  | 23.0                | 1.0      |  |
| 40               | 64QAM      | 1       | 1         | 18.25                 | 18.25                    | 18.16                  | 21.5                | 2.5      |  |
| 40               | 256QAM     | 1       | 1         | 16.18                 | 16.29                    | 16.17                  | 19.5                | 4.5      |  |
| Channel          |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3595.02               | 3624.99                  | 3694.99                |                     |          |  |
| 30               | QPSK       | 1       | 1         | 22.59                 | 22.63                    | 22.31                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637234                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3660.01               | 3624.99                  | 3690                   |                     |          |  |
| 20               | QPSK       | 1       | 1         | 22.55                 | 22.66                    | 22.31                  | 24.0                | 0.0      |  |
| Channel          |            |         |           | 637000                | 641004                   | 642332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)  |            |         |           | 3555                  | 3624.99                  | 3694.98                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 22.62                 | 22.63                    | 22.33                  | 24.0                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                | 633332                   | 6499.98                | 3499.98             |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 22.96                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 23.15                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 23.13                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 22.98                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 23.11                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 23.08                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 23.09                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 23.16                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 23.11                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 23.10                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.92                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 23.09                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 23.02                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 22.98                    |                        | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 23.10                    |                        | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 23.09                    |                        | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 22.11                    |                        | 23.5                | 0.5      |  |
| Channel           |            |         |           | 633000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 23.10                 | 23.13                    | 23.09                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 23.09                 | 23.07                    | 23.06                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 23.06                 | 23.14                    | 23.14                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 23.12                 | 23.07                    | 23.15                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 23.09                 | 23.12                    | 23.15                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 23.06                 | 23.15                    | 23.15                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 23.13                 | 23.06                    | 23.13                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 23.12                 | 23.06                    | 23.11                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 23.06                 | 23.07                    | 23.08                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630004                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 23.07                 | 23.13                    | 23.15                  | 24.0                | 0.0      |  |



| Part27Q_n77 HPUE Ant 4 |                 |         |           |                      |                       |                   |                     |          |  |
|------------------------|-----------------|---------|-----------|----------------------|-----------------------|-------------------|---------------------|----------|--|
| BW [MHz]               | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Freq. [MHz] | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 3469.88              | 6533.02               |                   |                     |          |  |
| 100                    | P2/ BPSK        | 1       | 1         | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.14                 |                   |                     | 0.0      |  |
| 100                    | P2/ BPSK        | 1       | 137       | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.02                 |                   | 27.0                | 0.0      |  |
| 100                    | P2/ BPSK        | 135     | 15        | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.07                 |                   | 27.0                | 0.0      |  |
| 100                    | P2/ BPSK        | 135     | 135       | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.07                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 1       | 1         | 20.11                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.20                | 26.20                 |                   |                     | 0.0      |  |
| 100                    | QPSK            | 1       | 137       | 20.11                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.20                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 1       | 271       | 20.11                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.20                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 135     | 0         | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 135     | 69        | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 135     | 136       | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | QPSK            | 270     | 0         | 20.07                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 26.16                | 26.08                 |                   | 27.0                | 0.0      |  |
| 100                    | 16QAM           | 1       | 1         | 21.33                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 24.31                | 24.35                 |                   |                     | 1.5      |  |
| 100                    | 256QAM          | 1       | 1         | 21.33                |                       |                   |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6330.00              | 6333.02               | 6339.96           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3440                 | 3469.88               | 3434.95           |                     |          |  |
| 90                     | QPSK            | 1       | 1         | 26.13                | 26.16                 | 26.07             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6326.68              | 6333.02               | 6340.00           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3410.81              | 3469.88               | 3434.95           |                     |          |  |
| 90                     | QPSK            | 1       | 1         | 26.13                | 26.16                 | 26.04             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6323.94              | 6333.02               | 6343.02           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3446.01              | 3469.88               | 3514.48           |                     |          |  |
| 70                     | QPSK            | 1       | 1         | 26.06                | 26.16                 | 26.01             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6320.03              | 6333.02               | 6339.96           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3440                 | 3469.88               | 3519.99           |                     | 1.5      |  |
| 60                     | QPSK            | 1       | 1         | 26.09                | 26.16                 | 26.04             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6318.66              | 6333.02               |                   | 27.0                | 0.0      |  |
| 50                     | QPSK            | 1       | 1         | 26.06                | 26.13                 | 26.06             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6313.94              | 6333.02               | 6333.02           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3435.81              | 3469.88               | 3509.89           |                     |          |  |
| 40                     | QPSK            | 1       | 1         | 26.06                | 26.11                 | 26.02             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6310.00              | 6333.02               | 6336.96           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3445                 | 3469.88               | 3534.99           |                     |          |  |
| 30                     | QPSK            | 1       | 1         | 26.09                | 26.10                 | 26.01             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6306.68              | 6333.02               | 6330.00           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3460.02              | 3469.88               | 3540              |                     |          |  |
| 20                     | QPSK            | 1       | 1         | 26.07                | 26.13                 | 26.04             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6305.00              | 6333.02               | 6331.00           | 27.0                | 0.0      |  |
|                        | Channel         |         |           | 3457.5               | 3469.88               | 3542.49           |                     | 1.5      |  |
| 15                     | QPSK            | 1       | 1         | 26.06                | 26.16                 | 26.01             |                     |          |  |
|                        | Channel         |         |           |                      |                       |                   |                     |          |  |
|                        | Frequency (MHz) |         |           | 6303.94              | 6333.02               | 6332.92           | Time-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3458.84              | 3469.88               | 3536.88           |                     |          |  |
| 10                     | QPSK            | 1       | 1         | 26.10                | 26.13                 | 26.08             |                     |          |  |

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|------------------------|-----------------|---------|-----------|----------------------|-----------------------|----------------------------|---------------------|----------|----------|
| BW [MHz]               | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Power Med Ch / Freq. | Turn-up time (dBm)  | MPR (dB) |          |
|                        | Channel         |         |           | 650000               | 650000                | 662000                     |                     |          |          |
|                        | Frequency (MHz) |         |           | 3750                 | 3440                  | 3620                       |                     |          |          |
| 100                    | P22 BPSK        | 1       | 1         | 26.11                | 26.20                 | 26.14                      |                     |          |          |
| 100                    | P22 BPSK        | 1       | 137       | 26.19                | 26.29                 | 26.26                      |                     |          | 0.0      |
| 100                    | P22 BPSK        | 1       | 271       | 26.21                | 26.26                 | 26.15                      | 27.0                |          | 0.0      |
| 100                    | P22 BPSK        | 135     | 15        | 26.08                | 26.11                 | 26.04                      | 27.0                |          | 0.0      |
| 100                    | P22 BPSK        | 135     | 69        | 26.15                | 26.21                 | 26.19                      | 27.0                |          | 0.0      |
| 100                    | P22 BPSK        | 135     | 138       | 26.09                | 26.15                 | 26.05                      | 27.0                |          | 0.0      |
| 100                    | P22 BPSK        | 270     | 0         | 26.59                | 26.04                 | 26.02                      |                     |          | 0.0      |
| 100                    | QPSK            | 1       | 1         | 26.36                | 26.34                 | 26.27                      |                     |          | 0.0      |
| 100                    | QPSK            | 1       | 137       | 26.15                | 26.21                 | 26.14                      | 27.0                |          | 0.0      |
| 100                    | QPSK            | 1       | 271       | 26.26                | 26.30                 | 26.23                      |                     |          | 0.0      |
| 100                    | QPSK            | 135     | 0         | 26.58                | 26.04                 | 26.02                      |                     |          | 0.0      |
| 100                    | QPSK            | 135     | 69        | 26.10                | 26.25                 | 26.11                      | 27.0                |          | 0.0      |
| 100                    | QPSK            | 135     | 138       | 25.97                | 26.05                 | 25.98                      | 27.0                |          | 0.0      |
| 100                    | QPSK            | 270     | 0         | 26.91                | 25.95                 | 25.86                      | 27.0                |          | 0.0      |
| 100                    | 16QAM           | 1       | 1         | 26.73                | 26.41                 | 26.77                      | 27.0                |          | 0.0      |
| 100                    | 64QAM           | 1       | 1         | 26.23                | 24.35                 | 24.30                      | 25.5                | 1.5      | 0.0      |
| 100                    | 256QAM          | 1       | 1         | 22.88                | 22.92                 | 22.87                      | 23.5                | 3.5      | 0.0      |
|                        | Channel         |         |           | 665968               | 665000                | 662332                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3440                 | 3440                  | 3454.88                    |                     |          |          |
| 50                     | QPSK            | 1       | 1         | 26.22                | 26.25                 | 26.17                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 665354               | 665000                | 665668                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3440                 | 3440                  | 3458.88                    |                     |          |          |
| 50                     | QPSK            | 1       | 1         | 26.22                | 26.27                 | 26.22                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 665000               | 665000                | 665000                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3735                 | 3840                  | 3945                       |                     |          |          |
| 70                     | QPSK            | 1       | 1         | 26.20                | 26.28                 | 26.23                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 665000               | 665000                | 665333                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3730.02              | 3840                  | 3949.98                    |                     |          |          |
| 80                     | QPSK            | 1       | 1         | 26.26                | 26.31                 | 26.22                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 664532               | 665000                | 665055                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3725.01              | 3840                  | 3954.99                    |                     |          |          |
| 50                     | QPSK            | 1       | 1         | 26.21                | 26.25                 | 26.20                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 665000               | 665000                | 664000                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3720                 | 3840                  | 3960                       |                     |          |          |
| 40                     | QPSK            | 1       | 1         | 26.25                | 26.29                 | 26.24                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 664968               | 665000                | 664532                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3715.02              | 3840                  | 3964.88                    |                     |          |          |
| 30                     | QPSK            | 1       | 1         | 26.24                | 26.29                 | 26.27                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 667354               | 665000                | 664668                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3710.01              | 3840                  | 3969.99                    |                     |          |          |
| 20                     | QPSK            | 1       | 1         | 26.24                | 26.25                 | 26.18                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 667312               | 665000                | 664332                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3707.52              | 3840                  | 3972.48                    |                     |          |          |
| 15                     | QPSK            | 1       | 1         | 26.20                | 26.24                 | 26.21                      | 27.0                | 0.0      | 0.0      |
|                        | Channel         |         |           | 667000               | 665000                | 665000                     | Turn-up limit (dBm) |          | MPR (dB) |
|                        | Frequency (MHz) |         |           | 3705                 | 3840                  | 3972                       |                     |          |          |
| 10                     | QPSK            | 1       | 1         | 26.25                | 26.31                 | 26.17                      | 27.0                | 0.0      | 0.0      |

## Part27Q\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                | 3489.98                  |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 20.94                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 20.93                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 20.96                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 20.97                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 20.92                 |                          |                        | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 20.96                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 21.04                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 20.96                 |                          |                        | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 20.88                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 20.92                 |                          |                        | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.96                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 20.94                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.46                 |                          |                        | 21.5                | 0.5      |
| 100             | 256QAM     | 1       | 1         | 18.42                 |                          |                        | 19.5                | 2.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485                  | 3489.98                  | 3504.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3486.02               | 3489.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 20.96                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 63485.01              | 3489.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 20.93                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3489.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3489.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3489.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3489.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 638000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3489.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630000                | 633332                   | 638166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3489.98                  | 3542.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630334                | 633332                   | 638332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3489.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 650000                | 650000                   | 650000                 |                     |          |
|                 |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 20.97                 | 21.00                    | 21.01                  |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 20.98                 | 21.01                    | 20.96                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 20.90                 | 21.00                    | 20.96                  |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 20.93                 | 21.03                    | 20.95                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 69        | 20.95                 | 21.03                    | 20.99                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 20.95                 | 21.00                    | 20.95                  | 22.0                | 0.0      |
| 100             | Pl2 BPSK   | 270     | 0         | 20.92                 | 21.02                    | 21.00                  |                     |          |
| 100             | QPSK       | 1       | 1         | 21.00                 | 21.06                    | 21.03                  |                     |          |
| 100             | QPSK       | 1       | 137       | 20.94                 | 21.02                    | 21.00                  | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 20.94                 | 20.97                    | 20.99                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.94                 | 20.98                    | 21.00                  |                     |          |
| 100             | QPSK       | 135     | 69        | 20.95                 | 21.05                    | 21.02                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 20.90                 | 20.96                    | 20.98                  |                     |          |
| 100             | QPSK       | 270     | 0         | 20.90                 | 20.97                    | 20.95                  | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.98                 | 20.96                    | 20.94                  | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.44                 | 20.96                    | 20.40                  | 21.5                | 0.5      |
| 100             | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 2.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3742.02               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 20.92                 | 21.04                    | 20.99                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3740.01               | 3840                     | 3936.98                |                     |          |
| 80              | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 21.01                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 20.94                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3729.02               | 3840                     | 3948.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.96                 | 21.00                    | 20.95                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 646334                | 650000                   | 653668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3725.01               | 3840                     | 3954.98                |                     |          |
| 50              | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 645000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 20.95                 | 21.02                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 643668                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.91                 | 21.02                    | 20.94                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 656668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3710.01               | 3840                     | 3969.98                |                     |          |
| 20              | QPSK       | 1       | 1         | 20.92                 | 21.02                    | 20.93                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647168                | 650000                   | 656832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.93                 | 20.99                    | 21.00                  | 22.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 657000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 20.96                  | 22.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                | 3489.98                  |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 22.98                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       | 22.84                 |                          |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 271       | 22.86                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 0         | 22.54                 |                          |                        | 23.5                | 0.5      |
| 100             | Pl2 BPSK   | 135     | 69        | 22.93                 |                          |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 22.44                 |                          |                        | 23.5                | 0.5      |
| 100             | Pl2 BPSK   | 270     | 0         | 22.41                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 23.01                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 22.51                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.06                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 21.96                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.68                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 21.34                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 21.56                 |                          |                        | 23.0                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 20.51                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.42                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475                  | 3489.98                  | 3514.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.85                 | 22.95                    | 22.89                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480.02               | 3489.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.91                 | 22.94                    | 22.93                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632834                | 633332                   | 633832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3489.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.90                 | 22.98                    | 22.97                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632700                | 633332                   | 633900                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3489.98               | 3489.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.84                 | 22.99                    | 22.87                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632668                | 633332                   | 633900                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3491.00               | 3489.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.93                 | 22.88                    | 22.92                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633134                | 633332                   | 633532                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3481.01               | 3489.98                  | 3508.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.93                 | 22.95                    | 22.93                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3489.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.95                 | 22.98                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 633900                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480.02               | 3489.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.88                 | 22.00                    | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632975                | 633332                   | 633832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3492.5                | 3489.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.92                 | 22.95                    | 22.91                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632925                | 633332                   | 633832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3484.01               | 3489.98                  | 3544.88                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.94                 | 22.99                    | 22.92                  | 24.0                | 0.0      |

| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
|                        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.97                 | 23.03                    | 22.91                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 23.04                 | 23.07                    | 23.04                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.95                 | 22.96                    | 22.91                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.34                 | 22.38                    | 22.36                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.92                 | 23.02                    | 22.87                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.40                 | 22.43                    | 22.34                  | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.26                 | 22.41                    | 22.38                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 23.01                 | 23.09                    | 23.04                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 22.99                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 22.98                 | 23.02                    | 22.87                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 21.94                 | 21.94                    | 21.85                  | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 69        | 22.31                 | 22.97                    | 22.74                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 138       | 21.90                 | 21.95                    | 21.86                  |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 21.73                 | 21.87                    | 21.76                  | 23.0                | 1.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 21.96                 | 22.11                    | 22.08                  | 23.0                | 1.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 20.44                 | 20.56                    | 20.49                  | 21.5                | 2.5      |  |  |
| 100                    | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 4.5      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.96                 | 23.08                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 660966                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.01               | 3840                     | 3939.99                |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.83                 | 23.01                    | 22.91                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                     | QPSK       | 1       | 1         | 22.88                 | 22.94                    | 22.90                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3745.02               | 3840                     | 3949.98                |                     |          |  |  |
| 60                     | QPSK       | 1       | 1         | 22.96                 | 23.05                    | 22.87                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |  |
| 50                     | QPSK       | 1       | 1         | 22.90                 | 23.05                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                     | QPSK       | 1       | 1         | 22.87                 | 23.03                    | 22.93                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |  |
| 30                     | QPSK       | 1       | 1         | 22.92                 | 23.07                    | 22.93                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3713.01               | 3840                     | 3966.99                |                     |          |  |  |
| 20                     | QPSK       | 1       | 1         | 22.89                 | 23.02                    | 22.88                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |  |
| 15                     | QPSK       | 1       | 1         | 22.83                 | 23.04                    | 22.97                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                     | QPSK       | 1       | 1         | 22.84                 | 23.08                    | 22.89                  | 24.0                | 0.0      |  |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 639000                | 639332                   | 640998                 |                     |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 22.80                    |                        |                     |                     |          |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 22.77                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 22.72                    |                        |                     |                     |          |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 22.75                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 22.69                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 22.72                    |                        | 24.0                | 0.0                 |          |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 22.76                    |                        |                     |                     |          |  |
| 100                | QPSK       | 1       | 1         |                       | 22.81                    |                        |                     |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 22.75                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 1       | 271       |                       | 22.71                    |                        |                     |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 22.70                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 135     | 69        |                       | 22.73                    |                        |                     |                     |          |  |
| 100                | QPSK       | 135     | 138       |                       | 22.48                    |                        | 24.0                | 0.0                 |          |  |
| 100                | QPSK       | 270     | 0         |                       | 22.64                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 16QAM      | 1       | 1         |                       | 22.88                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 64QAM      | 1       | 1         |                       | 21.43                    |                        | 24.0                | 0.0                 |          |  |
| 100                | 256QAM     | 1       | 1         |                       | 20.08                    |                        | 22.5                | 1.5                 |          |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 639000                | 639332                   | 639666                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |                     |          |  |
| 90                 | QPSK       | 1       | 1         |                       | 632668                   | 633332                 | 634000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |                     |          |  |
| 80                 | QPSK       | 1       | 1         |                       | 632334                   | 633332                 | 634332              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |                     |          |  |
| 70                 | QPSK       | 1       | 1         |                       | 632000                   | 633332                 | 634666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3480                  | 3499.98                  | 3518.98                |                     |                     |          |  |
| 60                 | QPSK       | 1       | 1         |                       | 631668                   | 633332                 | 635000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |                     |          |  |
| 50                 | QPSK       | 1       | 1         |                       | 631334                   | 633332                 | 635332              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |                     |          |  |
| 40                 | QPSK       | 1       | 1         |                       | 631000                   | 633332                 | 635666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |                     |          |  |
| 30                 | QPSK       | 1       | 1         |                       | 630668                   | 633332                 | 636000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |                     |          |  |
| 20                 | QPSK       | 1       | 1         |                       | 630334                   | 633332                 | 636332              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |                     |          |  |
| 15                 | QPSK       | 1       | 1         |                       | 630000                   | 633332                 | 636666              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |                     |          |  |
| 10                 | QPSK       | 1       | 1         |                       | 629668                   | 633332                 | 637000              | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |                     |          |  |
| Frequency (MHz)    |            |         |           | 629668                | 633332                   | 637000                 | Tune-up limit (dBm) | MPR (dB)            |          |  |
|                    |            |         |           | 3452.51               | 3499.98                  | 3542.48                |                     |                     |          |  |



| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 26.12                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 26.03                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 26.08                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 26.02                 |                          |                        | 26.5                | 0.5      |  |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 26.01                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.97                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.91                 |                          |                        | 26.5                | 0.5      |  |  |
| 100                     | QPSK       | 1       | 1         | 26.15                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 26.03                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 1       | 271       | 26.11                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 0         | 25.98                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 69        | 25.92                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       | 25.42                 |                          |                        | 26.0                | 1.0      |  |  |
| 100                     | QPSK       | 270     | 0         | 25.21                 |                          |                        |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         | 25.91                 |                          |                        |                     |          |  |  |
| 100                     | 64QAM      | 1       | 1         | 24.42                 |                          |                        | 26.5                | 2.5      |  |  |
| 100                     | 256QAM     | 1       | 1         | 22.31                 |                          |                        |                     |          |  |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dB)                |          |  |  |
| 90                      | QPSK       | 1       | 1         | 25.97                 | 26.00                    | 25.98                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |  |  |
| 80                      | QPSK       | 1       | 1         | 25.91                 | 25.85                    | 25.96                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |  |  |
| 70                      | QPSK       | 1       | 1         | 25.91                 | 25.84                    | 25.82                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dB)                |          |  |  |
| 60                      | QPSK       | 1       | 1         | 25.80                 | 25.89                    | 25.83                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |  |
| 50                      | QPSK       | 1       | 1         | 25.78                 | 25.84                    | 25.86                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |  |  |
| 40                      | QPSK       | 1       | 1         | 25.87                 | 25.98                    | 25.97                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dB)                |          |  |  |
| 30                      | QPSK       | 1       | 1         | 25.81                 | 25.81                    | 25.87                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |  |
| 20                      | QPSK       | 1       | 1         | 25.88                 | 25.89                    | 25.79                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dB)                |          |  |  |
| 15                      | QPSK       | 1       | 1         | 25.96                 | 25.87                    | 25.96                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |  |  |
| 10                      | QPSK       | 1       | 1         | 25.88                 | 25.82                    | 25.97                  | 27.0                | 0.0      |  |  |

| Part27O_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 650000                |                          |                        | 3750                |          |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 25.82                 | 25.89                    | 25.76                  | 27.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 25.84                 | 25.89                    | 25.74                  |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 25.90                 | 25.86                    | 25.83                  |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 25.73                 | 25.62                    | 25.68                  | 26.5                | 0.5      |  |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 25.78                 | 25.69                    | 25.72                  |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.77                 | 25.71                    | 25.66                  |                     |          |  |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.66                 | 25.61                    | 25.63                  | 26.5                | 0.5      |  |  |
| 100                     | QPSK       | 1       | 1         | 25.91                 | 25.88                    | 25.77                  |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 25.85                 | 25.86                    | 25.70                  |                     |          |  |  |
| 100                     | QPSK       | 1       | 271       | 25.90                 | 25.73                    | 25.65                  | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 0         | 25.25                 | 25.02                    | 25.06                  |                     |          |  |  |
| 100                     | QPSK       | 135     | 69        | 25.72                 | 25.62                    | 25.65                  |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       | 25.33                 | 25.13                    | 25.08                  | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 270     | 0         | 25.24                 | 24.88                    | 24.82                  |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         | 25.39                 | 24.77                    | 24.73                  |                     |          |  |  |
| 100                     | 64QAM      | 1       | 1         | 23.94                 | 23.45                    | 23.39                  | 26.5                | 2.5      |  |  |
| 100                     | 256QAM     | 1       | 1         | 21.89                 | 22.00                    | 21.96                  |                     |          |  |  |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3742.02               | 3740                     | 3741.98                | (dB)                |          |  |  |
| 90                      | QPSK       | 1       | 1         | 25.83                 | 25.70                    | 25.76                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3740                     | 3740.98                | (dB)                |          |  |  |
| 80                      | QPSK       | 1       | 1         | 25.78                 | 25.74                    | 25.68                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   | (dB)                |          |  |  |
| 70                      | QPSK       | 1       | 1         | 25.73                 | 25.72                    | 25.69                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                     | 3945.98                | (dB)                |          |  |  |
| 60                      | QPSK       | 1       | 1         | 25.74                 | 25.86                    | 25.65                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.98                | (dB)                |          |  |  |
| 50                      | QPSK       | 1       | 1         | 25.78                 | 25.82                    | 25.63                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   | (dB)                |          |  |  |
| 40                      | QPSK       | 1       | 1         | 25.77                 | 25.77                    | 25.65                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3954.98                | (dB)                |          |  |  |
| 30                      | QPSK       | 1       | 1         | 25.85                 | 25.87                    | 25.58                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3959.98                | (dB)                |          |  |  |
| 20                      | QPSK       | 1       | 1         | 25.75                 | 25.70                    | 25.72                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                | (dB)                |          |  |  |
| 15                      | QPSK       | 1       | 1         | 25.78                 | 25.71                    | 25.67                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3975                   | (dB)                |          |  |  |
| 10                      | QPSK       | 1       | 1         | 25.71                 | 25.87                    | 25.85                  | 27.0                | 0.0      |  |  |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 1         | 26.06                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 1       | 137       | 26.09                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 271       | 26.81                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 0         | 26.89                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 69        | 26.85                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 138       | 26.88                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 270     | 0         | 26.82                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 1         | 26.91                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 1       | 137       | 26.89                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 1       | 271       | 26.86                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 0         | 26.87                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 135     | 69        | 26.83                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 135     | 138       | 26.85                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 270     | 0         | 26.85                 |                          |                        |                     |          |  |  |
| 100               | 16QAM      | 1       | 1         | 26.84                 |                          |                        |                     |          |  |  |
| 100               | 64QAM      | 1       | 1         | 26.38                 |                          |                        | 21.5                | 0.5      |  |  |
| 100               | 256QAM     | 1       | 1         | 18.47                 |                          |                        |                     |          |  |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dB)                |          |  |  |
| 90                | QPSK       | 1       | 1         | 26.80                 | 26.87                    | 26.76                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3498.98               | 3499.98                  | 3500                   | (dB)                |          |  |  |
| 80                | QPSK       | 1       | 1         | 26.77                 | 26.88                    | 26.77                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3486.01               | 3499.98                  | 3514.98                | (dB)                |          |  |  |
| 70                | QPSK       | 1       | 1         | 26.79                 | 26.83                    | 26.71                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3486                  | 3499.98                  | 3519.99                | (dB)                |          |  |  |
| 60                | QPSK       | 1       | 1         | 26.78                 | 26.84                    | 26.74                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |  |
| 50                | QPSK       | 1       | 1         | 26.83                 | 26.87                    | 26.74                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3470.24               | 3499.98                  | 3528.89                | (dB)                |          |  |  |
| 40                | QPSK       | 1       | 1         | 26.78                 | 26.81                    | 26.71                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dB)                |          |  |  |
| 30                | QPSK       | 1       | 1         | 26.78                 | 26.77                    | 26.74                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |  |
| 20                | QPSK       | 1       | 1         | 26.82                 | 26.89                    | 26.71                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 630332                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dB)                |          |  |  |
| 15                | QPSK       | 1       | 1         | 26.82                 | 26.89                    | 26.78                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3450.01               | 3499.98                  | 3544.88                | (dB)                |          |  |  |
| 10                | QPSK       | 1       | 1         | 26.82                 | 26.89                    | 26.78                  | 22.0                | 0.0      |  |  |



| Part270_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
|                   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.29                 | 20.41                    | 20.34                  |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.27                 | 20.39                    | 20.34                  | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.24                 | 20.37                    | 20.37                  |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.25                 | 20.44                    | 20.36                  | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.30                 | 20.40                    | 20.34                  | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.27                 | 20.44                    | 20.30                  |                     |          |  |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.28                 | 20.39                    | 20.37                  | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 1         | 20.33                 | 20.46                    | 20.40                  |                     |          |  |  |
| 100               | QPSK       | 1       | 137       | 20.29                 | 20.36                    | 20.31                  | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 271       | 20.24                 | 20.41                    | 20.34                  |                     |          |  |  |
| 100               | QPSK       | 135     | 0         | 20.26                 | 20.41                    | 20.36                  |                     |          |  |  |
| 100               | QPSK       | 135     | 69        | 20.31                 | 20.45                    | 20.38                  | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 138       | 20.27                 | 20.36                    | 20.33                  |                     |          |  |  |
| 100               | QPSK       | 270     | 0         | 20.31                 | 20.43                    | 20.31                  | 22.0                | 0.0      |  |  |
| 100               | 16QAM      | 1       | 1         | 20.23                 | 20.44                    | 20.33                  | 22.0                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         | 19.84                 | 19.91                    | 19.89                  | 21.5                | 0.5      |  |  |
| 100               | 256QAM     | 1       | 1         | 17.90                 | 17.96                    | 17.93                  | 19.5                | 2.5      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3742.02               | 3840                     | 3924.98                |                     |          |  |  |
| 90                | QPSK       | 1       | 1         | 20.23                 | 20.37                    | 20.30                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3745.01               | 3840                     | 3939.99                |                     |          |  |  |
| 80                | QPSK       | 1       | 1         | 20.30                 | 20.36                    | 20.34                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 648000                | 650000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                | QPSK       | 1       | 1         | 20.23                 | 20.40                    | 20.30                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3724.02               | 3840                     | 3949.98                |                     |          |  |  |
| 60                | QPSK       | 1       | 1         | 20.24                 | 20.41                    | 20.33                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |  |
| 50                | QPSK       | 1       | 1         | 20.25                 | 20.39                    | 20.32                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                | QPSK       | 1       | 1         | 20.28                 | 20.41                    | 20.33                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 647168                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3715.02               | 3840                     | 3954.98                |                     |          |  |  |
| 30                | QPSK       | 1       | 1         | 20.31                 | 20.37                    | 20.33                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3713.01               | 3840                     | 3956.99                |                     |          |  |  |
| 20                | QPSK       | 1       | 1         | 20.31                 | 20.44                    | 20.36                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |  |
| 15                | QPSK       | 1       | 1         | 20.28                 | 20.38                    | 20.30                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                | QPSK       | 1       | 1         | 20.28                 | 20.38                    | 20.30                  | 22.0                | 0.0      |  |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 639000                | 639332                   | 639998                 |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 22.86                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 22.91                    |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 22.82                    |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 22.44                    |                        | 23.5                | 0.5      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 22.89                    |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 22.26                    |                        | 23.5                | 0.5      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 22.33                    |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         |                       | 22.93                    |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       |                       | 22.47                    |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       |                       | 22.54                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         |                       | 21.86                    |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 69        |                       | 22.76                    |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 138       |                       | 21.65                    |                        |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         |                       | 21.78                    |                        | 23.0                | 1.0      |  |  |
| 100                    | 16QAM      | 1       | 1         |                       | 21.95                    |                        | 23.0                | 1.0      |  |  |
| 100                    | 64QAM      | 1       | 1         |                       | 20.38                    |                        | 21.5                | 2.5      |  |  |
| 100                    | 256QAM     | 1       | 1         |                       | 18.47                    |                        | 19.5                | 4.5      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633998                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3480                  | 3489.98                  | 3499.98                |                     |          |  |  |
| 90                     | QPSK       | 1       | 1         | 22.80                 | 22.75                    | 22.78                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3490.02               | 3499.98                  | 3500                   |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.83                 | 22.85                    | 22.84                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 634500                | 633332                   | 635168                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |  |
| 70                     | QPSK       | 1       | 1         | 22.74                 | 22.87                    | 22.81                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3480                  | 3499.98                  | 3518.98                |                     |          |  |  |
| 60                     | QPSK       | 1       | 1         | 22.85                 | 22.75                    | 22.79                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |  |
| 50                     | QPSK       | 1       | 1         | 22.77                 | 22.76                    | 22.86                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |  |
| 40                     | QPSK       | 1       | 1         | 22.73                 | 22.74                    | 22.87                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |  |  |
| 30                     | QPSK       | 1       | 1         | 22.85                 | 22.82                    | 22.75                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |  |
| 20                     | QPSK       | 1       | 1         | 22.85                 | 22.74                    | 22.86                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |  |  |
| 15                     | QPSK       | 1       | 1         | 22.83                 | 22.82                    | 22.82                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
|                        |            |         |           | 3455.01               | 3499.98                  | 3545.88                |                     |          |  |  |
| 10                     | QPSK       | 1       | 1         | 22.84                 | 22.86                    | 22.78                  | 24.0                | 0.0      |  |  |

| Part27Q_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                | 633332                   |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 22.69                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 22.66                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 22.74                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 22.67                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 22.67                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 22.71                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 22.75                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 22.75                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 22.73                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 22.73                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.69                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 22.75                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.69                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 22.74                    |                        | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 22.68                    |                        | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.65                    |                        | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 22.62                    |                        | 24.0                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633332                   | 634966                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.65                 | 22.65                    | 22.71                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632698                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.70                 | 22.70                    | 22.68                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.69                 | 22.64                    | 22.62                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634966                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3518.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.65                 | 22.64                    | 22.66                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.70                 | 22.64                    | 22.70                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.72                 | 22.63                    | 22.65                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635966                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.73                 | 22.71                    | 22.67                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630698                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.75                 | 22.65                    | 22.64                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.68                 | 22.70                    | 22.62                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 22.70                 | 22.68                    | 22.62                  | 24.0                | 0.0      |  |

| Part27O_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 635000                | 635000                   |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 22.74                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 22.72                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 22.78                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 22.72                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 22.73                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 22.72                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 22.62                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 22.68                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 22.74                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 22.75                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.73                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 22.65                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.79                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 22.78                    |                        | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 22.70                    |                        | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.62                    |                        | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 22.75                    |                        | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3743.02               | 3750                     | 3754.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.62                 | 22.71                    | 22.73                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.65                 | 22.73                    | 22.76                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 645990                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.62                 | 22.78                    | 22.78                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 644668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.03               | 3750                     | 3768.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.65                 | 22.79                    | 22.76                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 644334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.64                 | 22.77                    | 22.78                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 644000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.64                 | 22.75                    | 22.78                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 643668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.69                 | 22.74                    | 22.74                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.65                 | 22.74                    | 22.76                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.71                 | 22.74                    | 22.72                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 22.62                 | 22.74                    | 22.73                  | 24.0                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 25.85                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 25.79                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 25.85                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 25.70                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 25.83                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 25.78                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 25.73                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 25.90                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 25.81                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 25.86                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 25.74                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 25.83                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 25.33                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 25.80                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 25.83                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 25.56                 |                          |                        | 26.5                | 0.5      |  |
| 100                    | 256QAM     | 1       | 1         | 23.46                 |                          |                        | 24.5                | 2.5      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 25.31                 | 25.37                    | 25.30                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 25.31                 | 25.33                    | 25.37                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 25.38                 | 25.32                    | 25.32                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 25.29                 | 25.33                    | 25.28                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 25.34                 | 25.37                    | 25.33                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 25.29                 | 25.32                    | 25.30                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 25.38                 | 25.28                    | 25.28                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 25.36                 | 25.30                    | 25.28                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 25.28                 | 25.37                    | 25.28                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 25.30                 | 25.37                    | 25.30                  | 27.0                | 0.0      |  |

| Part27O_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 25.80                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 25.72                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 25.77                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 25.66                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 25.75                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 25.72                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 25.69                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 25.81                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 25.79                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 25.76                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 25.70                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 25.75                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 25.69                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 25.70                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 25.71                 |                          |                        | 27.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 25.30                 |                          |                        | 26.5                | 0.5      |  |
| 100                    | 256QAM     | 1       | 1         | 23.37                 |                          |                        | 24.5                | 2.5      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 25.73                 | 25.74                    | 25.76                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 25.72                 | 25.72                    | 25.78                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 25.73                 | 25.74                    | 25.71                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3730.02               | 3750                     | 3761.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 25.72                 | 25.76                    | 25.76                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 25.71                 | 25.72                    | 25.72                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 25.78                 | 25.74                    | 25.71                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 25.74                 | 25.75                    | 25.71                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3710.01               | 3750                     | 3789.98                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 25.71                 | 25.72                    | 25.76                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 652932                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 25.73                 | 25.72                    | 25.72                  | 27.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 25.78                 | 25.71                    | 25.75                  | 27.0                | 0.0      |  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                       |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                       | 3499.98                |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.72                 |                       |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.83                 |                       |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.80                 |                       |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.82                 |                       |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.87                 |                       |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.79                 |                       |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.77                 |                       |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         | 20.85                 |                       |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 20.79                 |                       |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 20.73                 |                       |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 20.80                 |                       |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 20.85                 |                       |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       | 20.73                 |                       |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 20.83                 |                       |                        | 22.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 20.81                 |                       |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 20.85                 |                       |                        | 22.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 19.25                 |                       |                        | 20.5                | 1.5      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633332                | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 20.82                 | 20.80                 | 20.79                  | 22.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 632668                | 633332                | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK       | 1       | 1         | 20.77                 | 20.80                 | 20.87                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632334                | 633332                | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 20.80                 | 20.78                 | 20.83                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633332                | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK       | 1       | 1         | 20.81                 | 20.84                 | 20.82                  | 22.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3479.02               | 3499.98               | 3520.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 20.88                 | 20.84                 | 20.85                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633134                | 633332                | 633532                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 20.75                 | 20.84                 | 20.82                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000                | 633332                | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 20.85                 | 20.84                 | 20.84                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630668                | 633332                | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 20.90                 | 20.88                 | 20.80                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632000                | 633332                | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 20.76                 | 20.84                 | 20.87                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632332                | 633332                | 633332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | QPSK       | 1       | 1         | 20.80                 | 20.85                 | 20.85                  | 22.0                | 0.0      |  |

| Part270_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 21.12                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 21.06                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 21.14                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 21.16                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 21.14                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 21.11                    |                        | 22.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 21.15                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 21.20                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 21.19                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 21.17                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 21.08                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 21.13                    |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 21.10                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 21.07                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 21.06                    |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.93                    |                        | 22.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.46                    |                        | 20.5                | 1.5      |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3750                     | 3757.98                | (dBm)               | (dB)     |  |
| 90                | QPSK       | 1       | 1         | 21.08                 | 21.09                    | 21.09                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                | QPSK       | 1       | 1         | 21.11                 | 21.12                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                | QPSK       | 1       | 1         | 21.14                 | 21.19                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                | QPSK       | 1       | 1         | 21.08                 | 21.15                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                | QPSK       | 1       | 1         | 21.15                 | 21.10                    | 21.12                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                | QPSK       | 1       | 1         | 21.07                 | 21.08                    | 21.18                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                | QPSK       | 1       | 1         | 21.16                 | 21.16                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3713.01               | 3750                     | 3786.99                | (dBm)               | (dB)     |  |
| 20                | QPSK       | 1       | 1         | 21.15                 | 21.15                    | 21.13                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                | QPSK       | 1       | 1         | 21.06                 | 21.16                    | 21.15                  | 22.0                | 0.0      |  |
| Channel           |            |         |           | 645000                | 650000                   | 655000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                | QPSK       | 1       | 1         | 21.14                 | 21.08                    | 21.09                  | 22.0                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.71                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 22.72                 |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.67                 |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.69                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 22.74                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 22.18                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.06                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 22.80                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 22.77                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 22.22                 |                          |                        |                     |          |  |  |
| 100                    | 22.77      | 138     | 0         | 22.72                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        | 22.77                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 21.40                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 22.21                 |                          |                        |                     |          |  |  |
| 100                    | 16QAM      | 1       | 1         | 22.78                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 21.26                 |                          |                        | 22.5                | 1.5      |  |  |
| 100                    | 256QAM     | 1       | 1         | 19.25                 |                          |                        | 20.5                | 3.5      |  |  |
| Channel                |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.77                 | 22.74                    | 22.79                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.68                 | 22.69                    | 22.70                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |  |  |
| 70                     | QPSK       | 1       | 1         | 22.75                 | 22.76                    | 22.67                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dB)                |          |  |  |
| 60                     | QPSK       | 1       | 1         | 22.71                 | 22.65                    | 22.75                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |  |
| 50                     | QPSK       | 1       | 1         | 22.77                 | 22.68                    | 22.70                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |  |  |
| 40                     | QPSK       | 1       | 1         | 22.69                 | 22.66                    | 22.73                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dB)                |          |  |  |
| 30                     | QPSK       | 1       | 1         | 22.76                 | 22.65                    | 22.72                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |  |
| 20                     | QPSK       | 1       | 1         | 22.75                 | 22.68                    | 22.72                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 630334                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |  |  |
| 15                     | QPSK       | 1       | 1         | 22.68                 | 22.70                    | 22.73                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 630000                | 633332                   | 636700                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |  |  |
| 10                     | QPSK       | 1       | 1         | 22.73                 | 22.73                    | 22.75                  | 24.0                | 0.0      |  |  |

| Part27O_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           | 650000                |                          |                        | 3750                |          |  |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 22.94                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 23.04                 |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 22.90                 |                          |                        |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 22.96                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 23.00                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 23.04                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 22.94                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 23.05                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 22.96                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 22.92                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 22.97                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        | 22.97                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 22.44                 |                          |                        |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 22.54                 |                          |                        |                     |          |  |  |
| 100                    | 16QAM      | 1       | 1         | 22.85                 |                          |                        | 23.5                | 0.5      |  |  |
| 100                    | 64QAM      | 1       | 1         | 21.23                 |                          |                        | 22.5                | 1.5      |  |  |
| 100                    | 256QAM     | 1       | 1         | 19.26                 |                          |                        | 20.5                | 3.5      |  |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3757.98                | (dB)                |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.91                 | 23.00                    | 22.95                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                |          |  |  |
| 80                     | QPSK       | 1       | 1         | 22.91                 | 22.93                    | 22.93                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dB)                |          |  |  |
| 70                     | QPSK       | 1       | 1         | 22.95                 | 22.96                    | 22.96                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3732.02               | 3750                     | 3761.98                | (dB)                |          |  |  |
| 60                     | QPSK       | 1       | 1         | 23.04                 | 22.97                    | 22.97                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                |          |  |  |
| 50                     | QPSK       | 1       | 1         | 22.99                 | 23.00                    | 22.99                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dB)                |          |  |  |
| 40                     | QPSK       | 1       | 1         | 22.96                 | 22.95                    | 22.99                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dB)                |          |  |  |
| 30                     | QPSK       | 1       | 1         | 22.90                 | 22.90                    | 22.90                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3711.01               | 3750                     | 3789.98                | (dB)                |          |  |  |
| 20                     | QPSK       | 1       | 1         | 23.00                 | 22.99                    | 22.91                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dB)                |          |  |  |
| 15                     | QPSK       | 1       | 1         | 22.99                 | 23.01                    | 22.95                  | 24.0                | 0.0      |  |  |
| Channel                |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                |          |  |  |
| 10                     | QPSK       | 1       | 1         | 23.04                 | 22.99                    | 22.95                  | 24.0                | 0.0      |  |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 23.11                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 22.88                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 22.98                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 23.03                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 22.94                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 23.02                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 22.93                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 1         | 23.11                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 23.01                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 23.05                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 22.98                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 69        | 23.01                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 138       | 22.99                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 270     | 0         | 22.89                 |                          |                        |                     |          |  |  |
| 100                | 16QAM      | 1       | 1         | 23.10                 |                          |                        | 24.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 22.90                 |                          |                        | 24.0                | 0.5      |  |  |
| 100                | 256QAM     | 1       | 1         | 22.86                 |                          |                        | 23.5                | 0.5      |  |  |
| Channel            |            |         |           | 633000                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 90                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.01                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 632668                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 80                 | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.06                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 632334                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 70                 | QPSK       | 1       | 1         | 23.02                 | 23.01                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 632000                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 60                 | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.05                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 631668                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 50                 | QPSK       | 1       | 1         | 23.08                 | 23.01                    | 22.96                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 631334                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 40                 | QPSK       | 1       | 1         | 23.07                 | 23.10                    | 23.02                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 631000                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 30                 | QPSK       | 1       | 1         | 23.08                 | 23.05                    | 22.98                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 630668                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 20                 | QPSK       | 1       | 1         | 22.99                 | 23.07                    | 23.03                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 630332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 15                 | QPSK       | 1       | 1         | 23.02                 | 23.03                    | 23.08                  | 24.0                | 0.0      |  |  |
| Channel            |            |         |           | 630000                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 10                 | QPSK       | 1       | 1         | 23.04                 | 22.98                    | 23.07                  | 24.0                | 0.0      |  |  |

| Part270_n78_Ant 10 |            |         |           |                       |                        |                        |                     |          |     |  |
|--------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|-----|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mch. Ch. / Freq. | Power Hch. Ch. / Freq. | Tune-up limit (dBm) | MPR (db) |     |  |
| Channel            |            |         |           | 650000                |                        |                        |                     |          |     |  |
| Frequency (MHz)    |            |         |           | 3750                  |                        |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 1       | 1         |                       | 22.93                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 1       | 137       |                       | 23.00                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 1       | 271       |                       | 22.88                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 135     | 0         |                       | 22.91                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 135     | 69        |                       | 23.00                  |                        |                     | 24.0     | 0.0 |  |
| 100                | PI2 BPSK   | 135     | 138       |                       | 22.95                  |                        |                     |          |     |  |
| 100                | PI2 BPSK   | 270     | 0         |                       | 22.95                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 1       | 1         |                       | 23.01                  |                        |                     |          |     |  |
| 100                | QPSK       | 1       | 137       |                       | 22.97                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 1       | 271       |                       | 22.93                  |                        |                     |          |     |  |
| 100                | QPSK       | 135     | 0         |                       | 22.91                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 135     | 69        |                       | 22.97                  |                        |                     |          |     |  |
| 100                | QPSK       | 135     | 138       |                       | 22.95                  |                        |                     | 24.0     | 0.0 |  |
| 100                | QPSK       | 270     | 0         |                       | 22.94                  |                        |                     |          |     |  |
| 100                | 16QAM      | 1       | 1         |                       | 22.96                  |                        |                     | 24.0     | 0.0 |  |
| 100                | 64QAM      | 1       | 1         |                       | 22.88                  |                        |                     |          |     |  |
| 100                | 256QAM     | 1       | 1         |                       | 22.54                  |                        | 23.5                | 0.5      |     |  |
| Channel            |            |         |           | 649668                | 650000                 | 650332                 | Tune-up limit       |          |     |  |
| Frequency (MHz)    |            |         |           | 3745.02               | 3750                   | 3754.98                | (dBm)               | MPR (db) |     |  |
| 90                 | QPSK       | 1       | 1         | 22.80                 | 22.78                  | 22.81                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648334                | 650000                 | 650668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3750                   | 3759.99                | (dBm)               |          |     |  |
| 80                 | QPSK       | 1       | 1         | 22.82                 | 22.76                  | 22.79                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648000                | 650000                 | 651000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                   | 3765                   | (dBm)               |          |     |  |
| 70                 | QPSK       | 1       | 1         | 22.80                 | 22.76                  | 22.87                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648668                | 650000                 | 651332                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3740.02               | 3750                   | 3760.98                | (dBm)               |          |     |  |
| 60                 | QPSK       | 1       | 1         | 22.80                 | 22.79                  | 22.86                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648334                | 650000                 | 651668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3725.01               | 3750                   | 3774.99                | (dBm)               |          |     |  |
| 50                 | QPSK       | 1       | 1         | 22.82                 | 22.82                  | 22.84                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 648000                | 650000                 | 652000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                   | 3780                   | (dBm)               |          |     |  |
| 40                 | QPSK       | 1       | 1         | 22.83                 | 22.80                  | 22.84                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647668                | 650000                 | 652332                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                   | 3784.98                | (dBm)               |          |     |  |
| 30                 | QPSK       | 1       | 1         | 22.84                 | 22.80                  | 22.82                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647334                | 650000                 | 652668                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3750                   | 3789.99                | (dBm)               |          |     |  |
| 20                 | QPSK       | 1       | 1         | 22.78                 | 22.79                  | 22.85                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647168                | 650000                 | 652832                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                   | 3792.48                | (dBm)               |          |     |  |
| 15                 | QPSK       | 1       | 1         | 22.82                 | 22.80                  | 22.81                  | 24.0                | 0.0      |     |  |
| Channel            |            |         |           | 647000                | 650000                 | 653000                 | Tune-up limit       | MPR (db) |     |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                   | 3795                   | (dBm)               |          |     |  |
| 10                 | QPSK       | 1       | 1         | 22.80                 | 22.79                  | 22.82                  | 24.0                | 0.0      |     |  |



| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 25.97                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 25.79                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 25.88                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 25.94                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 25.78                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.88                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.76                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 1         | 25.03                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 25.97                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 271       | 25.94                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 0         | 25.98                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 69        | 25.97                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       | 25.79                 |                          |                        | 28.5                | 0.5      |  |  |
| 100                     | QPSK       | 270     | 0         | 25.96                 |                          |                        |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         | 25.83                 |                          |                        | 27.0                | 0.0      |  |  |
| 100                     | 64QAM      | 1       | 1         | 24.70                 |                          |                        | 25.5                | 1.5      |  |  |
| 100                     | 256QAM     | 1       | 1         | 22.60                 |                          |                        | 23.5                | 3.5      |  |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |  |  |
| 90                      | QPSK       | 1       | 1         | 25.96                 | 25.97                    | 26.00                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3496.02               | 3499.98                  | 3510                   |                     |          |  |  |
| 80                      | QPSK       | 1       | 1         | 25.97                 | 25.89                    | 26.00                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |  |
| 70                      | QPSK       | 1       | 1         | 25.88                 | 25.89                    | 26.02                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |  |
| 60                      | QPSK       | 1       | 1         | 26.00                 | 25.89                    | 25.92                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |  |
| 50                      | QPSK       | 1       | 1         | 25.94                 | 26.02                    | 26.02                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |  |
| 40                      | QPSK       | 1       | 1         | 26.00                 | 26.00                    | 26.00                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |  |
| 30                      | QPSK       | 1       | 1         | 25.97                 | 25.91                    | 26.02                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |  |
| 20                      | QPSK       | 1       | 1         | 25.97                 | 25.90                    | 25.92                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630000                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |  |
| 15                      | QPSK       | 1       | 1         | 25.93                 | 25.98                    | 25.88                  | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |  |
| 10                      | QPSK       | 1       | 1         | 25.95                 | 25.92                    | 25.98                  | 27.0                | 0.0      |  |  |

| Part27O_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |      |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |  |
| Channel                 |            |         |           | 650000                |                          |                        | 3750                |          |      |  |
| Frequency (MHz)         |            |         |           | 3750                  |                          |                        |                     |          |      |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 25.78                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 25.58                 |                          |                        |                     |          |      |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 25.57                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 25.66                 |                          |                        |                     |          |      |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 25.54                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 25.58                 |                          |                        |                     |          |      |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 25.52                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | QPSK       | 1       | 1         | 25.88                 |                          |                        |                     |          |      |  |
| 100                     | QPSK       | 1       | 137       | 25.79                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | QPSK       | 1       | 271       | 25.81                 |                          |                        |                     |          |      |  |
| 100                     | QPSK       | 135     | 0         | 25.71                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | QPSK       | 135     | 69        | 25.74                 |                          |                        |                     |          |      |  |
| 100                     | QPSK       | 135     | 138       | 25.70                 |                          |                        | 28.5                | 0.5      |      |  |
| 100                     | QPSK       | 270     | 0         | 25.72                 |                          |                        |                     |          |      |  |
| 100                     | 16QAM      | 1       | 1         | 25.57                 |                          |                        | 27.0                | 0.0      |      |  |
| 100                     | 64QAM      | 1       | 1         | 24.40                 |                          |                        | 25.5                | 1.5      |      |  |
| 100                     | 256QAM     | 1       | 1         | 22.37                 |                          |                        | 23.5                | 3.5      |      |  |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3742.02               | 3750                     | 3754.98                |                     |          |      |  |
| 80                      | QPSK       | 1       | 1         | 25.77                 | 25.88                    | 25.84                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.98                |                     |          |      |  |
| 80                      | QPSK       | 1       | 1         | 25.80                 | 25.86                    | 25.87                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |      |  |
| 70                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.85                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3742.02               | 3750                     | 3761.98                |                     |          |      |  |
| 60                      | QPSK       | 1       | 1         | 25.81                 | 25.80                    | 25.88                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.98                |                     |          |      |  |
| 50                      | QPSK       | 1       | 1         | 25.77                 | 25.79                    | 25.85                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |      |  |
| 40                      | QPSK       | 1       | 1         | 25.74                 | 25.85                    | 25.84                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |      |  |
| 30                      | QPSK       | 1       | 1         | 25.81                 | 25.85                    | 25.74                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3718.01               | 3750                     | 3789.98                |                     |          |      |  |
| 20                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.78                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 647168                | 650000                   | 652932                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |      |  |
| 15                      | QPSK       | 1       | 1         | 25.67                 | 25.81                    | 25.79                  | 27.0                | 0.0      |      |  |
| Channel                 |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      | (dB) |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |      |  |
| 10                      | QPSK       | 1       | 1         | 25.77                 | 25.87                    | 25.79                  | 27.0                | 0.0      |      |  |

| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.63                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.59                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.54                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.62                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.61                 |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.65                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.58                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 1       | 1         | 20.69                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 137       | 20.67                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 1       | 271       | 20.66                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 0         | 20.68                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 69        | 20.67                 |                          |                        |                     |          |  |  |
| 100               | QPSK       | 135     | 138       | 20.70                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | QPSK       | 270     | 0         | 20.60                 |                          |                        |                     |          |  |  |
| 100               | 16QAM      | 1       | 1         | 20.54                 |                          |                        | 22.0                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         | 20.17                 |                          |                        |                     |          |  |  |
| 100               | 256QAM     | 1       | 1         | 18.10                 |                          |                        | 21.5                | 0.5      |  |  |
| Channel           |            |         |           | 633000                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 90                | QPSK       | 1       | 1         | 20.66                 | 20.54                    | 20.55                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633666                |                          |                        | 633400              |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 80                | QPSK       | 1       | 1         | 20.66                 | 20.63                    | 20.64                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633332                |                          |                        | 633432              |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |
| 70                | QPSK       | 1       | 1         | 20.63                 | 20.55                    | 20.57                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633000                |                          |                        | 633332              |          |  |  |
| Frequency (MHz)   |            |         |           | 3480                  |                          |                        |                     |          |  |  |
| 60                | QPSK       | 1       | 1         | 20.55                 | 20.56                    | 20.66                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633332                |                          |                        | 633532              |          |  |  |
| Frequency (MHz)   |            |         |           | 3475.00               |                          |                        |                     |          |  |  |
| 50                | QPSK       | 1       | 1         | 20.57                 | 20.55                    | 20.68                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633334                |                          |                        | 633532              |          |  |  |
| Frequency (MHz)   |            |         |           | 3470.01               |                          |                        |                     |          |  |  |
| 40                | QPSK       | 1       | 1         | 20.66                 | 20.66                    | 20.66                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 631000                |                          |                        | 633332              |          |  |  |
| Frequency (MHz)   |            |         |           | 3465                  |                          |                        |                     |          |  |  |
| 30                | QPSK       | 1       | 1         | 20.55                 | 20.54                    | 20.58                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 630666                |                          |                        | 633332              |          |  |  |
| Frequency (MHz)   |            |         |           | 3460.02               |                          |                        |                     |          |  |  |
| 20                | QPSK       | 1       | 1         | 20.62                 | 20.57                    | 20.65                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633000                |                          |                        | 633332              |          |  |  |
| Frequency (MHz)   |            |         |           | 3457.5                |                          |                        |                     |          |  |  |
| 15                | QPSK       | 1       | 1         | 20.54                 | 20.69                    | 20.63                  | 22.0                | 0.0      |  |  |
| Channel           |            |         |           | 633232                |                          |                        | 633332              |          |  |  |
| Frequency (MHz)   |            |         |           | 3454.01               |                          |                        |                     |          |  |  |
| 10                | QPSK       | 1       | 1         | 20.66                 | 20.63                    | 20.68                  | 22.0                | 0.0      |  |  |



| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 21.10                    |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 137       |                       | 21.06                    |                        | 22.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 21.12                    |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                       | 21.06                    |                        | 22.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 21.06                    |                        | 22.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 21.15                    |                        | 22.0                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 21.15                    |                        |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 21.16                    |                        |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 21.09                    |                        | 22.0                | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 21.11                    |                        |                     |          |
| 100               | QPSK       | 135     | 0         |                       | 21.05                    |                        |                     |          |
| 100               | QPSK       | 135     | 69        |                       | 21.10                    |                        | 22.0                | 0.0      |
| 100               | QPSK       | 135     | 138       |                       | 21.07                    |                        |                     |          |
| 100               | QPSK       | 270     | 0         |                       | 21.04                    |                        | 22.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                       | 21.02                    |                        | 22.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 20.98                    |                        | 21.5                | 0.5      |
| 100               | 256QAM     | 1       | 1         |                       | 18.98                    |                        | 19.5                | 2.5      |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3742.02               | 3750                     | 3757.98                | (dBm)               | (dB)     |
| 90                | QPSK       | 1       | 1         | 21.11                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |
| 80                | QPSK       | 1       | 1         | 21.05                 | 21.14                    | 21.12                  | 22.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |
| 70                | QPSK       | 1       | 1         | 21.07                 | 21.07                    | 21.01                  | 22.0                | 0.0      |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3740.02               | 3750                     | 3760.98                | (dBm)               | (dB)     |
| 60                | QPSK       | 1       | 1         | 21.15                 | 21.07                    | 21.11                  | 22.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |
| 50                | QPSK       | 1       | 1         | 21.14                 | 21.14                    | 21.09                  | 22.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |
| 40                | QPSK       | 1       | 1         | 21.10                 | 21.09                    | 21.12                  | 22.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |
| 30                | QPSK       | 1       | 1         | 21.09                 | 21.11                    | 21.12                  | 22.0                | 0.0      |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |
| 20                | QPSK       | 1       | 1         | 21.14                 | 21.13                    | 21.04                  | 22.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652632                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |
| 15                | QPSK       | 1       | 1         | 21.15                 | 21.10                    | 21.01                  | 22.0                | 0.0      |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |
| 10                | QPSK       | 1       | 1         | 21.03                 | 21.13                    | 21.09                  | 22.0                | 0.0      |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633332                |                          | 3499.98                | 24.0                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 22.64                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 22.54                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 22.60                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 22.55                    |                        | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 22.51                    |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 22.43                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 22.50                    |                        | 23.5                | 0.5      |  |
| 100                    | QPSK       | 1       | 1         |                       | 22.73                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 22.64                    |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 22.65                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 22.47                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 22.68                    |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 21.95                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 22.20                    |                        | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 22.36                    |                        | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 21.29                    |                        | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 19.17                    |                        | 19.5                | 4.5      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 22.70                 | 22.68                    | 22.68                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 22.71                 | 22.59                    | 22.64                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.62                 | 22.60                    | 22.58                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3518.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 22.59                 | 22.71                    | 22.68                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 22.54                 | 22.63                    | 22.71                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3528.98                | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 22.59                 | 22.61                    | 22.67                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 22.68                 | 22.62                    | 22.71                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 22.63                 | 22.60                    | 22.70                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630300                | 633332                   | 636368                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 22.69                 | 22.68                    | 22.72                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630000                | 633332                   | 636668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 22.65                 | 22.66                    | 22.63                  | 24.0                | 0.0      |  |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 660000                |                          | 3750                   | 24.0                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 23.05                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 22.88                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 22.92                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 22.48                    |                        | 23.5                | 0.5      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 23.03                    |                        | 24.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 22.44                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 22.51                    |                        | 23.5                | 0.5      |  |
| 100                    | QPSK       | 1       | 1         |                       | 23.12                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 23.06                    |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 23.02                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 22.06                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 23.06                    |                        | 24.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 22.02                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 22.08                    |                        | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 22.13                    |                        | 23.0                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 20.16                    |                        | 21.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 18.98                    |                        | 19.5                | 4.5      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 23.05                 | 22.98                    | 23.02                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 23.05                 | 23.00                    | 23.02                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 22.98                 | 23.03                    | 22.97                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 23.03                 | 23.00                    | 23.06                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720.01               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 23.03                 | 23.10                    | 23.02                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3760                     | 3780                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 23.08                 | 23.11                    | 23.09                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 23.10                 | 23.08                    | 23.10                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3760                     | 3789.98                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 23.10                 | 23.00                    | 23.04                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 652932                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 23.01                 | 22.98                    | 23.04                  | 24.0                | 0.0      |  |
| Channel                |            |         |           | 646668                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3760                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 23.03                 | 23.07                    | 23.06                  | 24.0                | 0.0      |  |



Reduced Power Mode for DSI6

| n2_Ant 0        |            |         |           |                                                                        |                                        |                                      |                        |             |  |                        |  |
|-----------------|------------|---------|-----------|------------------------------------------------------------------------|----------------------------------------|--------------------------------------|------------------------|-------------|--|------------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>372000                                    | Power Middle<br>Ch. F. Freq.<br>376000 | Power High<br>Ch. F. Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |  |
| Channel         |            |         |           | 1860                                                                   | 1880                                   | 1900                                 | 20.0                   | 0.0         |  |                        |  |
| Frequency (MHz) |            |         |           |                                                                        |                                        |                                      |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 1         | 19.14                                                                  | 19.17                                  | 19.07                                |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 53        | 19.03                                                                  | 19.22                                  | 19.06                                |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 104       | 19.16                                                                  | 19.31                                  | 19.10                                | 20.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 0         | 19.12                                                                  | 19.15                                  | 19.05                                | 20.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 28        | 19.12                                                                  | 19.25                                  | 19.17                                | 20.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 56        | 19.17                                                                  | 19.24                                  | 19.10                                | 20.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 100     | 0         | 19.12                                                                  | 19.17                                  | 19.12                                | 20.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 1       | 1         | 19.21                                                                  | 19.39                                  | 19.17                                | 20.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 1       | 53        | 19.18                                                                  | 19.21                                  | 19.98                                |                        |             |  |                        |  |
| 20              | QPSK       | 1       | 104       | 19.16                                                                  | 19.19                                  | 19.13                                |                        |             |  |                        |  |
| 20              | QPSK       | 50      | 0         | 19.13                                                                  | 19.19                                  | 19.11                                |                        |             |  |                        |  |
| 20              | QPSK       | 50      | 28        | 19.20                                                                  | 19.32                                  | 19.30                                | 20.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 50      | 56        | 19.12                                                                  | 19.23                                  | 19.29                                | 20.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 100     | 0         | 19.20                                                                  | 19.25                                  | 19.09                                | 20.0                   | 0.0         |  |                        |  |
| 20              | 16QAM      | 1       | 1         | 19.10                                                                  | 19.24                                  | 19.10                                | 20.0                   | 0.0         |  |                        |  |
| 20              | 64QAM      | 1       | 1         | 19.12                                                                  | 19.28                                  | 19.04                                | 20.0                   | 0.0         |  |                        |  |
| 20              | 256QAM     | 1       | 1         | 19.07                                                                  | 19.07                                  | 19.06                                | 20.0                   | 0.0         |  |                        |  |
| Channel         |            |         |           | 371500                                                                 | 376000                                 | 380500                               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |  |
| Frequency (MHz) |            |         |           | 1860                                                                   | 1880                                   | 1902.5                               | 20.0                   | 0.0         |  |                        |  |
| 15              | QPSK       | 1       | 1         | 19.13                                                                  | 19.36                                  | 19.11                                |                        |             |  |                        |  |
| Channel         |            |         |           | 371000                                                                 | 376000                                 | 381000                               |                        |             |  | Tune-up limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1865                                                                   | 1880                                   | 1905                                 |                        |             |  | MPR<br>(dB)            |  |
| 10              | QPSK       | 1       | 1         | 19.19                                                                  | 19.36                                  | 19.14                                | 20.0                   | 0.0         |  |                        |  |
| Channel         |            |         |           | 370500                                                                 | 376000                                 | 381500                               | Tune-up limit<br>(dBm) |             |  |                        |  |
| Frequency (MHz) |            |         |           | 1862.5 <th>1880</th> <th>1907.5</th> <td colspan="3">MPR<br/>(dB)</td> | 1880                                   | 1907.5                               | MPR<br>(dB)            |             |  |                        |  |
| 5               | QPSK       | 1       | 1         | 19.19                                                                  | 19.36                                  | 19.09                                | 20.0                   | 0.0         |  |                        |  |

| n2_Ant 1        |            |         |           |                                                                        |                                        |                                      |                        |             |  |                        |  |
|-----------------|------------|---------|-----------|------------------------------------------------------------------------|----------------------------------------|--------------------------------------|------------------------|-------------|--|------------------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>372000                                    | Power Middle<br>Ch. F. Freq.<br>376000 | Power High<br>Ch. F. Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |  |
| Channel         |            |         |           | 1860                                                                   | 1880                                   | 1900                                 | 22.0                   | 0.0         |  |                        |  |
| Frequency (MHz) |            |         |           |                                                                        |                                        |                                      |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 1         | 21.02                                                                  | 21.06                                  | 21.12                                |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 53        | 20.98                                                                  | 21.09                                  | 21.07                                |                        |             |  |                        |  |
| 20              | Plz BPSK   | 1       | 104       | 20.97                                                                  | 21.13                                  | 21.07                                | 22.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 0         | 20.98                                                                  | 21.13                                  | 20.96                                | 22.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 28        | 21.04                                                                  | 21.09                                  | 20.99                                | 22.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 50      | 56        | 21.05                                                                  | 21.09                                  | 21.09                                | 22.0                   | 0.0         |  |                        |  |
| 20              | Plz BPSK   | 100     | 0         | 21.00                                                                  | 21.12                                  | 21.13                                | 22.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 1       | 1         | 21.08                                                                  | 21.14                                  | 21.08                                | 22.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 1       | 53        | 21.04                                                                  | 21.12                                  | 21.05                                |                        |             |  |                        |  |
| 20              | QPSK       | 1       | 104       | 21.03                                                                  | 21.05                                  | 20.95                                |                        |             |  |                        |  |
| 20              | QPSK       | 50      | 0         | 21.05                                                                  | 21.07                                  | 21.05                                |                        |             |  |                        |  |
| 20              | QPSK       | 50      | 28        | 21.08                                                                  | 21.10                                  | 21.08                                | 22.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 50      | 56        | 21.07                                                                  | 21.07                                  | 21.03                                | 22.0                   | 0.0         |  |                        |  |
| 20              | QPSK       | 100     | 0         | 21.03                                                                  | 21.08                                  | 21.08                                | 22.0                   | 0.0         |  |                        |  |
| 20              | 16QAM      | 1       | 1         | 21.05                                                                  | 21.12                                  | 21.08                                | 22.0                   | 0.0         |  |                        |  |
| 20              | 64QAM      | 1       | 1         | 20.46                                                                  | 20.54                                  | 20.47                                | 21.5                   | 0.5         |  |                        |  |
| 20              | 256QAM     | 1       | 1         | 18.43                                                                  | 18.51                                  | 18.43                                | 19.5                   | 2.5         |  |                        |  |
| Channel         |            |         |           | 371500                                                                 | 376000                                 | 380500                               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |  |
| Frequency (MHz) |            |         |           | 1867.5                                                                 | 1880                                   | 1902.5                               | 22.0                   | 0.0         |  |                        |  |
| 15              | QPSK       | 1       | 1         | 20.99                                                                  | 21.12                                  | 21.01                                |                        |             |  |                        |  |
| Channel         |            |         |           | 371000                                                                 | 376000                                 | 381000                               |                        |             |  | Tune-up limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1865                                                                   | 1880                                   | 1905                                 |                        |             |  | MPR<br>(dB)            |  |
| 10              | QPSK       | 1       | 1         | 21.06                                                                  | 21.05                                  | 21.03                                | 22.0                   | 0.0         |  |                        |  |
| Channel         |            |         |           | 370500                                                                 | 376000                                 | 381500                               | Tune-up limit<br>(dBm) |             |  |                        |  |
| Frequency (MHz) |            |         |           | 1862.5 <th>1880</th> <th>1907.5</th> <td colspan="3">MPR<br/>(dB)</td> | 1880                                   | 1907.5                               | MPR<br>(dB)            |             |  |                        |  |
| 5               | QPSK       | 1       | 1         | 21.04                                                                  | 21.06                                  | 21.06                                | 22.0                   | 0.0         |  |                        |  |

| n5_Ant 0        |            |         |           |                                     |                                        |                                         |                        |             |  |                        |     |  |
|-----------------|------------|---------|-----------|-------------------------------------|----------------------------------------|-----------------------------------------|------------------------|-------------|--|------------------------|-----|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>166800 | Power Middle<br>Ch. F. Freq.<br>167500 | Power High<br>Ch. F. Freq.<br>167800    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |     |  |
| Channel         |            |         |           | 834                                 | 836.5                                  | 839                                     | 24.0                   | 0.0         |  |                        |     |  |
| Frequency (MHz) |            |         |           |                                     |                                        |                                         |                        |             |  |                        |     |  |
| 20              | Plz BPSK   | 1       | 1         | 22.78                               | 22.82                                  | 22.80                                   |                        |             |  | 24.0                   | 0.0 |  |
| 20              | Plz BPSK   | 1       | 53        | 22.89                               | 22.95                                  | 22.87                                   |                        |             |  |                        |     |  |
| 20              | Plz BPSK   | 1       | 104       | 22.76                               | 22.86                                  | 22.78                                   |                        |             |  |                        |     |  |
| 20              | Plz BPSK   | 50      | 0         | 22.78                               | 22.88                                  | 22.86                                   |                        |             |  |                        |     |  |
| 20              | Plz BPSK   | 50      | 28        | 22.90                               | 22.95                                  | 22.90                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | Plz BPSK   | 50      | 56        | 22.77                               | 22.82                                  | 22.79                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | Plz BPSK   | 100     | 0         | 22.78                               | 22.88                                  | 22.83                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | QPSK       | 1       | 1         | 22.95                               | 23.00                                  | 22.90                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | QPSK       | 1       | 53        | 22.79                               | 22.82                                  | 22.79                                   |                        |             |  |                        |     |  |
| 20              | QPSK       | 1       | 104       | 22.82                               | 22.85                                  | 22.76                                   |                        |             |  |                        |     |  |
| 20              | QPSK       | 50      | 0         | 22.76                               | 22.85                                  | 22.76                                   |                        |             |  |                        |     |  |
| 20              | QPSK       | 50      | 28        | 22.91                               | 22.96                                  | 22.92                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | QPSK       | 50      | 56        | 22.77                               | 22.86                                  | 22.84                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | QPSK       | 100     | 0         | 22.87                               | 22.90                                  | 22.84                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | 16QAM      | 1       | 1         | 22.87                               | 22.92                                  | 22.87                                   | 24.0                   | 0.0         |  |                        |     |  |
| 20              | 64QAM      | 1       | 1         | 21.61                               | 21.65                                  | 21.55                                   | 22.5                   | 1.5         |  |                        |     |  |
| 20              | 256QAM     | 1       | 1         | 19.69                               | 19.71                                  | 19.67                                   | 20.5                   | 3.5         |  |                        |     |  |
| Channel         |            |         |           | 166300                              | 167300                                 | 168300                                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |                        |     |  |
| Frequency (MHz) |            |         |           | 831.5                               | 836.5                                  | 841.5                                   | 24.0                   | 0.0         |  |                        |     |  |
| 15              | QPSK       | 1       | 1         | 22.78                               | 22.83                                  | 22.84                                   |                        |             |  |                        |     |  |
| Channel         |            |         |           | 166800                              | 167300                                 | 168300                                  |                        |             |  | Tune-up limit<br>(dBm) |     |  |
| Frequency (MHz) |            |         |           | 834                                 | 836.5                                  | 844                                     |                        |             |  | MPR<br>(dB)            |     |  |
| 10              | QPSK       | 1       | 1         | 22.83                               | 22.98                                  | 22.76                                   | 24.0                   | 0.0         |  |                        |     |  |
| Channel         |            |         |           | 166300                              | 167300                                 | 168300                                  | Tune-up limit<br>(dBm) |             |  |                        |     |  |
| Frequency (MHz) |            |         |           | 836.5                               | 836.5                                  | 846.5 <td colspan="3">MPR<br/>(dB)</td> | MPR<br>(dB)            |             |  |                        |     |  |
| 5               | QPSK       | 1       | 1         | 22.83                               | 22.83                                  | 22.83                                   | 24.0                   | 0.0         |  |                        |     |  |

| n5_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>16680 | Power Middle<br>Ch. F. Freq.<br>16730 | Power High<br>Ch. F. Freq.<br>16780 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 834                                | 836.5                                 | 839                                 |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 22.74                              | 22.77                                 | 22.70                               |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 22.91                              | 22.90                                 | 22.89                               | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 104       | 22.85                              | 22.88                                 | 22.82                               |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.81                              | 22.85                                 | 22.79                               | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 28        | 22.79                              | 22.89                                 | 22.79                               | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.78                              | 22.88                                 | 22.84                               |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 22.68                              | 22.78                                 | 22.75                               | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 22.95                              | 22.98                                 | 22.80                               |                        |             |
| 20              | QPSK       | 1       | 53        | 22.72                              | 22.78                                 | 22.73                               | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 22.90                              | 22.89                                 | 22.81                               |                        |             |
| 20              | QPSK       | 50      | 0         | 22.73                              | 22.82                                 | 22.74                               | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 28        | 22.80                              | 22.90                                 | 22.82                               | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.74                              | 22.80                                 | 22.74                               |                        |             |
| 20              | QPSK       | 100     | 0         | 22.65                              | 22.69                                 | 22.63                               | 24.0                   | 0.0         |
| 20              | 16QAM      | 1       | 1         | 22.81                              | 22.85                                 | 22.78                               | 24.0                   | 0.0         |
| 20              | 64QAM      | 1       | 1         | 21.51                              | 21.61                                 | 21.56                               | 22.5                   | 1.5         |
| 20              | 256QAM     | 1       | 1         | 19.62                              | 19.64                                 | 19.62                               | 20.5                   | 3.5         |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               |                        |             |
| 15              | QPSK       | 1       | 1         | 22.87                              | 22.93                                 | 22.87                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 166800                             | 167300                                | 168800                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 830                                | 836.5                                 | 844                                 |                        |             |
| 10              | QPSK       | 1       | 1         | 22.90                              | 22.90                                 | 22.87                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 166300                             | 167300                                | 169300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               |                        |             |
| 5               | QPSK       | 1       | 1         | 22.93                              | 22.96                                 | 22.83                               | 24.0                   | 0.0         |

| n7_Ant 9        |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>50400 | Power Middle<br>Ch. F. Freq.<br>50700 | Power High<br>Ch. F. Freq.<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 2520                               | 2535                                  | 2550                                |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 19.73                              | 20.01                                 | 19.93                               |                        |             |
| 40              | PI2 BPSK   | 1       | 108       | 20.06                              | 20.09                                 | 20.03                               | 21.0                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 214       | 20.06                              | 20.06                                 | 20.13                               |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 19.83                              | 20.04                                 | 20.03                               | 21.0                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 54        | 19.81                              | 19.97                                 | 20.08                               | 21.0                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 19.97                              | 20.17                                 | 20.01                               |                        |             |
| 40              | PI2 BPSK   | 216     | 0         | 20.09                              | 20.21                                 | 20.08                               | 21.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 20.10                              | 20.29                                 | 20.18                               |                        |             |
| 40              | QPSK       | 1       | 108       | 19.79                              | 19.95                                 | 19.78                               | 21.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 20.10                              | 20.09                                 | 20.09                               |                        |             |
| 40              | QPSK       | 108     | 0         | 20.07                              | 20.06                                 | 20.16                               | 21.0                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 20.14                              | 20.23                                 | 20.16                               | 21.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 20.07                              | 20.16                                 | 20.15                               |                        |             |
| 40              | QPSK       | 216     | 0         | 20.04                              | 20.21                                 | 20.16                               | 21.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 20.09                              | 20.19                                 | 20.19                               | 21.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 19.84                              | 19.94                                 | 19.93                               | 21.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 20.12                              | 20.20                                 | 20.10                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 503000                             | 507000                                | 511000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2515                               | 2535                                  | 2555                                |                        |             |
| 30              | QPSK       | 1       | 1         | 20.10                              | 20.23                                 | 20.12                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 502000                             | 507000                                | 511900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2512.5                             | 2535                                  | 2557.5                              |                        |             |
| 25              | QPSK       | 1       | 1         | 20.09                              | 20.22                                 | 20.07                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 502000                             | 507000                                | 512000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2510                               | 2535                                  | 2560                                |                        |             |
| 20              | QPSK       | 1       | 1         | 20.04                              | 20.26                                 | 20.11                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 501000                             | 507000                                | 512100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                             | 2535                                  | 2562.5                              |                        |             |
| 15              | QPSK       | 1       | 1         | 20.09                              | 20.23                                 | 20.16                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 501000                             | 507000                                | 513000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2506                               | 2535                                  | 2566                                |                        |             |
| 10              | QPSK       | 1       | 1         | 20.09                              | 20.24                                 | 20.13                               | 21.0                   | 0.0         |
| Channel         |            |         |           | 500500                             | 507000                                | 513900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                             | 2535                                  | 2567.5                              |                        |             |
| 5               | QPSK       | 1       | 1         | 20.00                              | 20.20                                 | 20.10                               | 21.0                   | 0.0         |

| n7_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F. Freq.<br>50400 | Power Middle<br>Ch. F. Freq.<br>50700 | Power High<br>Ch. F. Freq.<br>51000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 2520                               | 2535                                  | 2550                                |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 18.43                              | 18.53                                 | 18.45                               |                        |             |
| 40              | PI2 BPSK   | 1       | 108       | 18.61                              | 18.59                                 | 18.62                               | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 214       | 18.49                              | 18.58                                 | 18.57                               |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 18.39                              | 18.56                                 | 18.32                               | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 54        | 18.32                              | 18.57                                 | 18.51                               | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 18.50                              | 18.56                                 | 18.56                               |                        |             |
| 40              | PI2 BPSK   | 216     | 0         | 18.53                              | 18.53                                 | 18.54                               | 19.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 18.54                              | 18.63                                 | 18.58                               |                        |             |
| 40              | QPSK       | 1       | 108       | 18.42                              | 18.52                                 | 18.52                               | 19.5                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 18.48                              | 18.55                                 | 18.54                               |                        |             |
| 40              | QPSK       | 108     | 0         | 18.50                              | 18.55                                 | 18.53                               | 19.5                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 18.52                              | 18.62                                 | 18.61                               | 19.5                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 18.47                              | 18.57                                 | 18.53                               |                        |             |
| 40              | QPSK       | 216     | 0         | 18.49                              | 18.58                                 | 18.57                               | 19.5                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 18.45                              | 18.59                                 | 18.54                               | 19.5                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 18.45                              | 18.52                                 | 18.49                               | 19.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 18.44                              | 18.58                                 | 18.59                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 503000                             | 507000                                | 511000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2515                               | 2535                                  | 2555                                |                        |             |
| 30              | QPSK       | 1       | 1         | 18.48                              | 18.55                                 | 18.52                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 502000                             | 507000                                | 511900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2512.5                             | 2535                                  | 2557.5                              |                        |             |
| 25              | QPSK       | 1       | 1         | 18.45                              | 18.57                                 | 18.54                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 502000                             | 507000                                | 512000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2510                               | 2535                                  | 2560                                |                        |             |
| 20              | QPSK       | 1       | 1         | 18.40                              | 18.54                                 | 18.47                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 501000                             | 507000                                | 512100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                             | 2535                                  | 2562.5                              |                        |             |
| 15              | QPSK       | 1       | 1         | 18.49                              | 18.56                                 | 18.53                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 501000                             | 507000                                | 513000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2506                               | 2535                                  | 2566                                |                        |             |
| 10              | QPSK       | 1       | 1         | 18.44                              | 18.53                                 | 18.55                               | 19.5                   | 0.0         |
| Channel         |            |         |           | 500500                             | 507000                                | 513900                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                             | 2535                                  | 2567.5                              |                        |             |
| 5               | QPSK       | 1       | 1         | 18.50                              | 18.56                                 | 18.56                               | 19.5                   | 0.0         |

| n12_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>141300 | Power Middle<br>Ch. F Freq.<br>141500 | Power High<br>Ch. F Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 706.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                              | 22.90                                 | 22.84                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                              | 22.96                                 | 22.91                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                              | 22.93                                 | 22.83                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                              | 22.79                                 | 22.77                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                              | 22.75                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.01                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 22.85                              | 22.92                                 | 22.83                               |                        |             |
| 15              | QPSK       | 1       | 77        | 22.83                              | 22.93                                 | 22.91                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.79                              | 22.86                                 | 22.79                               |                        |             |
| 15              | QPSK       | 36      | 22        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.70                              | 22.78                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         | 22.84                              | 22.90                                 | 22.87                               | 24.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         | 22.95                              | 22.91                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         | 21.43                              | 21.51                                 | 21.49                               | 22.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         | 19.51                              | 19.55                                 | 19.49                               | 20.5                   | 3.5         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.88                              | 22.99                                 | 22.86                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.19                              | 22.34                                 | 22.87                               | 24.0                   | 0.0         |

| n12_Ant 1       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>141300 | Power Middle<br>Ch. F Freq.<br>141500 | Power High<br>Ch. F Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 706.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 23.34                              | 23.35                                 | 23.31                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 23.33                              | 23.36                                 | 23.31                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 23.31                              | 23.32                                 | 23.31                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.89                              | 22.91                                 | 22.84                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 36      | 22        | 23.15                              | 23.17                                 | 23.15                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.82                              | 22.91                                 | 22.87                               | 23.5                   | 0.5         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.95                              | 22.98                                 | 22.93                               |                        |             |
| 15              | QPSK       | 1       | 1         | 23.35                              | 23.37                                 | 23.36                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 23.19                              | 23.28                                 | 23.24                               |                        |             |
| 15              | QPSK       | 1       | 77        | 23.34                              | 23.36                                 | 23.34                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.40                              | 22.46                                 | 22.44                               |                        |             |
| 15              | QPSK       | 36      | 22        | 23.19                              | 23.23                                 | 23.16                               | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.26                              | 22.35                                 | 22.30                               | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.49                              | 22.52                                 | 22.45                               | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         | 22.97                              | 22.81                                 | 22.51                               | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 21.05                              | 21.11                                 | 21.08                               | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 19.08                              | 19.18                                 | 19.17                               | 19.5                   | 4.5         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 23.32                              | 23.29                                 | 23.26                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 23.10                              | 23.13                                 | 23.27                               | 24.0                   | 0.0         |

| n14_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq.<br>159600 | Power Middle<br>Ch. F Freq.<br>159800 | Power High<br>Ch. F Freq.<br>160000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 793                                |                                       |                                     | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         |                                    | 22.78                                 |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        |                                    | 22.76                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 0         |                                    | 22.84                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        |                                    | 22.89                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        |                                    | 22.63                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         |                                    | 22.64                                 |                                     |                        |             |
| 10              | QPSK       | 1       | 1         |                                    | 22.82                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | QPSK       | 1       | 50        |                                    | 22.72                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 0         |                                    | 22.65                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 14        |                                    | 22.71                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 50      | 0         |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | 16QAM      | 1       | 1         |                                    | 22.80                                 |                                     | 24.0                   | 0.0         |
| 10              | 64QAM      | 1       | 1         |                                    | 21.57                                 |                                     | 22.5                   | 1.5         |
| 10              | 256QAM     | 1       | 1         |                                    | 19.45                                 |                                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 159100                             | 159800                                | 159100                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 790.5                              | 793                                   | 795.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.74                              | 22.75                                 | 22.75                               | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------|----------|
| Channel         |            |         |           | 156000                   |                             |                           |                     |          |
| Frequency (MHz) |            |         |           | 793                      |                             |                           |                     |          |
| 10              | PlZ BPSK   | 1       | 1         |                          | 23.15                       |                           | 24.0                | 0.0      |
| 10              | PlZ BPSK   | 1       | 26        |                          | 23.16                       |                           |                     |          |
| 10              | PlZ BPSK   | 1       | 50        |                          | 23.16                       |                           |                     |          |
| 10              | PlZ BPSK   | 25      | 0         |                          | 23.04                       |                           | 24.0                | 0.0      |
| 10              | PlZ BPSK   | 25      | 14        |                          | 23.05                       |                           | 24.0                | 0.0      |
| 10              | PlZ BPSK   | 25      | 27        |                          | 22.98                       |                           |                     |          |
| 10              | PlZ BPSK   | 50      | 0         |                          | 23.00                       |                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         |                          | 23.21                       |                           |                     |          |
| 10              | QPSK       | 1       | 26        |                          | 23.18                       |                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                          | 23.18                       |                           |                     |          |
| 10              | QPSK       | 25      | 0         |                          | 22.55                       |                           |                     |          |
| 10              | QPSK       | 25      | 14        |                          | 23.11                       |                           | 23.5                | 0.5      |
| 10              | QPSK       | 25      | 27        |                          | 22.53                       |                           | 24.0                | 0.0      |
| 10              | QPSK       | 50      | 0         |                          | 22.51                       |                           | 23.5                | 0.5      |
| 10              | 16QAM      | 1       | 1         |                          | 22.61                       |                           | 23.5                | 0.5      |
| 10              | 64QAM      | 1       | 1         |                          | 21.33                       |                           | 22.0                | 2.0      |
| 10              | 256QAM     | 1       | 1         |                          | 19.15                       |                           | 20.0                | 4.0      |
| Channel         |            |         |           | 156100                   | 156100                      |                           |                     |          |
| Frequency (MHz) |            |         |           | 790.5                    | 793                         | 796.5                     |                     |          |
| 5               | QPSK       | 1       | 1         | 23.12                    | 23.14                       | 23.08                     | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 374000                   | 376500                      | 379000                    |                        |             |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1895                      |                        |             |
| 40              | PlZ BPSK   | 1       | 1         | 19.03                    | 19.17                       | 19.13                     |                        |             |
| 40              | PlZ BPSK   | 1       | 108       | 19.16                    | 19.21                       | 19.22                     | 20.0                   | 0.0         |
| 40              | PlZ BPSK   | 1       | 214       | 19.11                    | 19.14                       | 19.22                     |                        |             |
| 40              | PlZ BPSK   | 108     | 0         | 19.08                    | 19.07                       | 19.06                     | 20.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 54        | 19.08                    | 19.26                       | 19.07                     | 20.0                   | 0.0         |
| 40              | PlZ BPSK   | 108     | 108       | 19.16                    | 19.30                       | 19.14                     |                        |             |
| 40              | PlZ BPSK   | 216     | 0         | 19.17                    | 19.18                       | 19.12                     | 20.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 19.31                    | 19.41                       | 19.20                     |                        |             |
| 40              | QPSK       | 1       | 108       | 19.12                    | 19.22                       | 19.16                     | 20.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 19.16                    | 19.26                       | 19.12                     |                        |             |
| 40              | QPSK       | 108     | 0         | 19.09                    | 19.12                       | 19.13                     | 20.0                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 19.17                    | 19.36                       | 19.15                     | 20.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 19.16                    | 19.33                       | 19.00                     |                        |             |
| 40              | QPSK       | 216     | 0         | 19.25                    | 19.26                       | 19.29                     | 20.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 19.15                    | 19.26                       | 19.24                     | 20.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 18.97                    | 19.09                       | 19.05                     | 20.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 19.11                    | 19.14                       | 19.09                     | 19.5                   | 0.5         |
| Channel         |            |         |           | 373500                   | 376500                      | 379500                    |                        |             |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1897.5                    |                        |             |
| 35              | QPSK       | 1       | 1         | 19.29                    | 19.32                       | 19.14                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 373000                   | 376500                      | 380000                    |                        |             |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1900                      |                        |             |
| 30              | QPSK       | 1       | 1         | 19.21                    | 19.37                       | 19.17                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 372500                   | 376500                      | 380500                    |                        |             |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1902.5                    |                        |             |
| 25              | QPSK       | 1       | 1         | 19.29                    | 19.37                       | 19.14                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    |                        |             |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | QPSK       | 1       | 1         | 19.29                    | 19.38                       | 19.11                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376500                      | 381500                    |                        |             |
| Frequency (MHz) |            |         |           | 1857.5                   | 1882.5                      | 1907.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 19.24                    | 19.31                       | 19.10                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    |                        |             |
| Frequency (MHz) |            |         |           | 1855                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 19.20                    | 19.38                       | 19.18                     | 20.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    |                        |             |
| Frequency (MHz) |            |         |           | 1852.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 19.21                    | 19.38                       | 19.13                     | 20.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 40              | P2 BPSK    | 1       | 1         | 20.76                    | 20.78                       | 20.73                     |                        |             |
| 40              | P2 BPSK    | 1       | 108       | 20.69                    | 20.81                       | 20.75                     | 22.0                   | 0.0         |
| 40              | P2 BPSK    | 1       | 214       | 20.72                    | 20.78                       | 20.62                     |                        |             |
| 40              | P2 BPSK    | 108     | 0         | 20.74                    | 20.78                       | 20.76                     | 22.0                   | 0.0         |
| 40              | P2 BPSK    | 108     | 54        | 20.69                    | 20.79                       | 20.76                     | 22.0                   | 0.0         |
| 40              | P2 BPSK    | 108     | 108       | 20.67                    | 20.80                       | 20.76                     |                        |             |
| 40              | P2 BPSK    | 216     | 0         | 20.71                    | 20.75                       | 20.78                     |                        |             |
| 40              | QPSK       | 1       | 1         | 20.76                    | 20.82                       | 20.67                     |                        |             |
| 40              | QPSK       | 1       | 108       | 20.68                    | 20.78                       | 20.68                     | 22.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 20.77                    | 20.76                       | 20.71                     |                        |             |
| 40              | QPSK       | 108     | 0         | 20.71                    | 20.79                       | 20.69                     | 22.0                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 20.75                    | 20.80                       | 20.71                     | 22.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 20.68                    | 20.78                       | 20.70                     |                        |             |
| 40              | QPSK       | 216     | 0         | 20.67                    | 20.77                       | 20.74                     | 22.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 20.69                    | 20.74                       | 20.73                     | 22.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 20.46                    | 20.48                       | 20.43                     | 21.5                   | 0.5         |
| 40              | 256QAM     | 1       | 1         | 18.36                    | 18.43                       | 18.36                     | 19.5                   | 2.5         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 35              | QPSK       | 1       | 1         | 20.70                    | 20.73                       | 20.62                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 30              | QPSK       | 1       | 1         | 20.69                    | 20.80                       | 20.67                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 25              | QPSK       | 1       | 1         | 20.71                    | 20.77                       | 20.66                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 20              | QPSK       | 1       | 1         | 20.76                    | 20.75                       | 20.68                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 15              | QPSK       | 1       | 1         | 20.67                    | 20.73                       | 20.62                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 10              | QPSK       | 1       | 1         | 20.70                    | 20.76                       | 20.69                     | 22.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          |                             |                           |                        |             |
| 5               | QPSK       | 1       | 1         | 20.73                    | 20.72                       | 20.63                     | 22.0                   | 0.0         |



| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.96                        | 23.02                           | 22.97                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.92                        | 23.00                           | 22.98                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         |                     |          |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.91                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.82                           | 22.98                         | 23.5                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 18.13                        | 18.17                           | 18.14                         | 20.0                | 4.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |

| n26(FCC)_Ant 1  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 23.07                        | 23.10                           | 23.08                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 23.04                        | 23.12                           | 23.03                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 23.23                        | 23.26                           | 23.20                         |                     |          |
| 20              | Pl2 BPSK   | 50      | 0         | 22.80                        | 22.82                           | 22.74                         | 23.5                | 0.5      |
| 20              | Pl2 BPSK   | 50      | 28        | 23.16                        | 23.22                           | 23.13                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.91                        | 22.99                           | 22.96                         | 23.5                | 0.5      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.87                        | 22.90                           | 22.82                         | 23.5                | 0.5      |
| 20              | QPSK       | 1       | 1         | 23.25                        | 23.30                           | 23.26                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 23.07                        | 23.13                           | 23.06                         |                     |          |
| 20              | QPSK       | 1       | 104       | 23.23                        | 23.26                           | 23.22                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.23                        | 22.33                           | 22.26                         |                     |          |
| 20              | QPSK       | 50      | 28        | 23.18                        | 23.25                           | 23.21                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.42                        | 22.47                           | 22.44                         | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.38                        | 22.43                           | 22.39                         | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.45                        | 22.46                           | 22.45                         | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.89                        | 20.95                           | 20.94                         | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.78                        | 18.88                           | 18.86                         | 19.5                | 4.5      |
| Channel         |            |         |           | 164300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.15                        | 23.25                           | 23.16                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.22                        | 23.21                           | 23.21                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.17                        | 23.20                           | 23.23                         | 24.0                | 0.0      |

| n30_Ant 9       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 460500                |                          |                        | 22.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 21.29                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 21.30                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 21.33                 |                          |                        | 22.5                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 0         | 21.34                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 26      | 14        | 21.35                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 26      | 27        | 21.35                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 50      | 0         | 21.33                 |                          |                        | 22.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 21.37                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 26        | 21.29                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 21.51                 |                          |                        |                     |          |
| 10              | QPSK       | 26      | 0         | 21.30                 |                          |                        | 22.5                | 0.0      |
| 10              | QPSK       | 26      | 14        | 21.35                 |                          |                        |                     |          |
| 10              | QPSK       | 26      | 27        | 21.30                 |                          |                        |                     |          |
| 10              | QPSK       | 50      | 0         | 21.48                 |                          |                        |                     |          |
| 10              | 16QAM      | 1       | 1         | 21.34                 |                          |                        | 22.5                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 21.34                 |                          |                        |                     |          |
| 10              | 256QAM     | 1       | 1         | 19.86                 |                          |                        |                     |          |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 |                     |          |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 | 22.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 21.30                 | 21.27                    | 21.34                  | 22.5                | 0.0      |

| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 17.69                           |                        | 19.5                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 17.76                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 17.71                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 17.74                           |                        | 19.5                | 0.0      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 17.67                           |                        | 19.5                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 17.71                           |                        | 19.5                | 0.0      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 17.72                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 17.78                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 17.70                           |                        | 19.5                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 17.72                           |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 17.72                           |                        | 19.5                | 0.0      |
| 10              | QPSK       | 25      | 14        |                       | 17.77                           |                        | 19.5                | 0.0      |
| 10              | QPSK       | 25      | 27        |                       | 17.76                           |                        | 19.5                | 0.0      |
| 10              | QPSK       | 50      | 0         |                       | 17.84                           |                        |                     |          |
| 10              | 16QAM      | 1       | 1         |                       | 17.71                           |                        | 19.5                | 0.0      |
| 10              | 64QAM      | 1       | 1         |                       | 17.71                           |                        | 19.5                | 0.0      |
| 10              | 256QAM     | 1       | 1         |                       | 17.73                           |                        | 19.5                | 0.0      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 17.63                 | 17.58                           | 17.57                  | 19.5                | 0.0      |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq | Power Middle<br>Ch. F Freq | Power High<br>Ch. F Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                    | 1745                       | 1760                     | 21.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                    | 1745                       | 1760                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 20.73                   | 20.68                      | 20.74                    |                        |             |
| 40              | Pl2 BPSK   | 1       | 108       | 20.70                   | 20.73                      | 20.73                    |                        |             |
| 40              | Pl2 BPSK   | 1       | 214       | 20.67                   | 20.69                      | 20.67                    | 21.5                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 0         | 20.75                   | 20.68                      | 20.68                    | 21.5                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 54        | 20.71                   | 20.71                      | 20.74                    | 21.5                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 108       | 20.74                   | 20.67                      | 20.72                    | 21.5                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 20.70                   | 20.68                      | 20.68                    | 21.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 20.75                   | 20.76                      | 20.75                    | 21.5                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 20.69                   | 20.70                      | 20.68                    |                        |             |
| 40              | QPSK       | 1       | 214       | 20.70                   | 20.72                      | 20.71                    |                        |             |
| 40              | QPSK       | 108     | 0         | 20.72                   | 20.70                      | 20.68                    |                        |             |
| 40              | QPSK       | 108     | 54        | 20.73                   | 20.74                      | 20.72                    | 21.5                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 20.70                   | 20.70                      | 20.70                    | 21.5                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 20.71                   | 20.73                      | 20.67                    | 21.5                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 20.71                   | 20.72                      | 20.74                    | 21.5                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 20.73                   | 20.69                      | 20.66                    | 21.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 19.39                   | 19.46                      | 19.41                    | 20.5                   | 1.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 353000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1727.5                  | 1745                       | 1762.5                   | 21.5                   | 0.0         |
| 35              | QPSK       | 1       | 1         | 20.69                   | 20.71                      | 20.73                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 353000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 20.69                   | 20.73                      | 20.67                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 353000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 20.66                   | 20.68                      | 20.65                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 353000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 20.69                   | 20.73                      | 20.72                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 343000                  | 349000                     | 354000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 20.67                   | 20.67                      | 20.67                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 343000                  | 349000                     | 350000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 17.15                   | 17.45                      | 17.75                    | 21.5                   | 0.0         |
| Channel         |            |         |           | 342500                  | 349000                     | 350000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 20.67                   | 20.66                      | 20.64                    | 21.5                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq | Power Middle<br>Ch. F Freq | Power High<br>Ch. F Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|
| Channel         |            |         |           | 1730                    | 1745                       | 1760                     | 21.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                    | 1745                       | 1760                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 20.03                   | 20.03                      | 19.98                    |                        |             |
| 40              | Pl2 BPSK   | 1       | 108       | 19.97                   | 20.04                      | 19.95                    |                        |             |
| 40              | Pl2 BPSK   | 1       | 214       | 20.05                   | 20.00                      | 19.97                    | 21.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 0         | 20.04                   | 20.01                      | 20.03                    | 21.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 54        | 19.97                   | 20.04                      | 19.98                    | 21.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 108       | 20.02                   | 20.02                      | 19.95                    | 21.0                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 19.99                   | 20.03                      | 20.03                    | 21.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 20.02                   | 20.06                      | 20.04                    | 21.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 19.97                   | 20.01                      | 19.94                    |                        |             |
| 40              | QPSK       | 1       | 214       | 19.96                   | 20.03                      | 20.02                    |                        |             |
| 40              | QPSK       | 108     | 0         | 19.98                   | 19.96                      | 19.96                    |                        |             |
| 40              | QPSK       | 108     | 54        | 20.00                   | 20.04                      | 20.00                    | 21.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 19.97                   | 20.03                      | 19.93                    | 21.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 19.96                   | 20.02                      | 19.97                    | 21.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 20.01                   | 19.97                      | 19.97                    | 21.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 20.03                   | 20.03                      | 19.98                    | 21.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 19.07                   | 19.13                      | 19.05                    | 20.0                   | 1.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 352500                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 35              | QPSK       | 1       | 1         | 19.99                   | 19.96                      | 19.96                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 345000                  | 349000                     | 353000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 19.97                   | 19.98                      | 20.00                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 344000                  | 349000                     | 350000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 19.92                   | 20.04                      | 19.98                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 344000                  | 349000                     | 352500                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 19.92                   | 20.04                      | 19.99                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 343000                  | 349000                     | 354000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 19.96                   | 20.02                      | 19.94                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 343000                  | 349000                     | 350000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 19.94                   | 19.98                      | 20.01                    | 21.0                   | 0.0         |
| Channel         |            |         |           | 342500                  | 349000                     | 350000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 19.94                   | 19.96                      | 20.01                    | 21.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. F Freq | Power Middle<br>Ch. F Freq | Power High<br>Ch. F Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|
| Channel         |            |         |           | 1702.5                  | 1702.5                     | 1702.5                   | 22.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1702.5                  | 1702.5                     | 1702.5                   |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 20.91                   | 20.91                      | 20.91                    |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 20.86                   | 20.86                      | 20.86                    |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 20.92                   | 20.92                      | 20.92                    | 22.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 0         | 20.94                   | 20.94                      | 20.94                    | 22.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        | 20.85                   | 20.85                      | 20.85                    | 22.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 20.89                   | 20.89                      | 20.89                    | 22.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         | 20.93                   | 20.93                      | 20.93                    | 22.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 20.95                   | 20.95                      | 20.95                    | 22.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 20.94                   | 20.94                      | 20.94                    |                        |             |
| 15              | QPSK       | 1       | 77        | 20.94                   | 20.94                      | 20.94                    |                        |             |
| 15              | QPSK       | 36      | 0         | 20.91                   | 20.91                      | 20.91                    |                        |             |
| 15              | QPSK       | 36      | 22        | 20.93                   | 20.93                      | 20.93                    | 22.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 20.90                   | 20.90                      | 20.90                    | 22.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         | 20.91                   | 20.91                      | 20.91                    | 22.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         | 20.93                   | 20.93                      | 20.93                    | 22.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         | 20.94                   | 20.94                      | 20.94                    | 22.0                   | 0.0         |
| 15              | 256QAM     | 1       | 1         | 19.65                   | 19.65                      | 19.65                    | 20.5                   | 1.5         |
| Channel         |            |         |           | 340000                  | 345000                     | 341000                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1700                    | 1702.5                     | 1705                     | 21.5                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 20.90                   | 20.85                      | 20.89                    | 22.0                   | 0.0         |
| Channel         |            |         |           | 339500                  | 340500                     | 341500                   | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 20.88                   | 20.90                      | 20.92                    | 22.0                   | 0.0         |

| n70_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel         |            |         |           | 1702.5                |                          |                        | 22.0                | 0.0      |  |  |  |  |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |  |  |  |  |
| 15              | PlZ BPSK   | 1       | 1         | 21.24                 |                          |                        |                     |          |  |  |  |  |
| 15              | PlZ BPSK   | 1       | 40        | 21.26                 |                          |                        |                     |          |  |  |  |  |
| 15              | PlZ BPSK   | 1       | 77        | 21.22                 |                          |                        |                     |          |  |  |  |  |
| 15              | PlZ BPSK   | 36      | 0         | 21.23                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | PlZ BPSK   | 36      | 22        | 21.23                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | PlZ BPSK   | 36      | 43        | 21.26                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | PlZ BPSK   | 75      | 0         | 21.24                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 1       | 1         | 21.31                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | QPSK       | 1       | 40        | 21.26                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 1       | 77        | 21.22                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 21.21                 |                          |                        |                     |          |  |  |  |  |
| 15              | QPSK       | 36      | 22        | 21.29                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | QPSK       | 36      | 43        | 21.27                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 21.26                 |                          |                        |                     |          |  |  |  |  |
| 15              | 16QAM      | 1       | 1         | 21.21                 |                          |                        | 22.0                | 0.0      |  |  |  |  |
| 15              | 64QAM      | 1       | 1         | 21.29                 |                          |                        | 21.5                | 0.5      |  |  |  |  |
| 15              | 256QAM     | 1       | 1         | 19.03                 |                          |                        | 19.5                | 2.5      |  |  |  |  |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |  |  |  |  |
| 10              | QPSK       | 1       | 1         | 21.24                 | 21.21                    | 21.23                  | 22.0                | 0.0      |  |  |  |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |  |  |  |  |
| 5               | QPSK       | 1       | 1         | 21.22                 | 21.29                    | 21.27                  | 22.0                | 0.0      |  |  |  |  |

| n71_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 678                   |                          |                        | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 678                   |                          |                        |                     |          |  |
| 30              | PlZ BPSK   | 1       | 1         | 23.05                 |                          |                        |                     |          |  |
| 30              | PlZ BPSK   | 1       | 80        | 22.59                 |                          |                        |                     |          |  |
| 30              | PlZ BPSK   | 1       | 158       | 22.63                 |                          |                        | 24.0                | 0.0      |  |
| 30              | PlZ BPSK   | 80      | 0         | 22.65                 |                          |                        |                     |          |  |
| 30              | PlZ BPSK   | 80      | 40        | 22.65                 |                          |                        | 24.0                | 0.0      |  |
| 30              | PlZ BPSK   | 80      | 80        | 22.46                 |                          |                        | 24.0                | 0.0      |  |
| 30              | PlZ BPSK   | 160     | 0         | 22.66                 |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.06                 |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 80        | 22.64                 |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 158       | 22.66                 |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 80      | 0         | 22.66                 |                          |                        |                     |          |  |
| 30              | QPSK       | 80      | 40        | 22.66                 |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 80      | 80        | 22.38                 |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 160     | 0         | 22.68                 |                          |                        |                     |          |  |
| 30              | 16QAM      | 1       | 1         | 22.99                 |                          |                        | 24.0                | 0.0      |  |
| 30              | 64QAM      | 1       | 1         | 22.01                 |                          |                        | 22.5                | 1.5      |  |
| 30              | 256QAM     | 1       | 1         | 20.07                 |                          |                        | 20.5                | 3.5      |  |
| Channel         |            |         |           | 135100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 675.5                 | 680.5                    | 685.5                  |                     |          |  |
| 25              | QPSK       | 1       | 1         | 23.06                 | 23.02                    | 22.98                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.02                 | 23.04                    | 23.02                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.98                 | 23.05                    | 22.95                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.02                 | 23.02                    | 23.00                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 695.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.98                 | 23.08                    | 22.95                  | 24.0                | 0.0      |  |

| n71_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 156600                |                          |                        | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 676 680.5             |                          |                        |                     |          |  |
| 30              | PV2 BPSK   | 1       | 1         | 23.22 23.27 23.15     |                          |                        |                     |          |  |
| 30              | PV2 BPSK   | 1       | 80        | 23.02 23.08 22.90     |                          |                        |                     |          |  |
| 30              | PV2 BPSK   | 1       | 158       | 22.85 22.88 22.83     |                          |                        | 24.0                | 0.0      |  |
| 30              | PV2 BPSK   | 80      | 0         | 22.83 22.91 22.76     |                          |                        |                     |          |  |
| 30              | PV2 BPSK   | 80      | 40        | 22.92 22.95 22.79     |                          |                        | 24.0                | 0.0      |  |
| 30              | PV2 BPSK   | 80      | 80        | 22.86 22.88 22.68     |                          |                        |                     |          |  |
| 30              | PV2 BPSK   | 160     | 0         | 22.94 23.01 22.83     |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 23.26 23.30 23.16     |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 80        | 22.93 23.02 22.86     |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 158       | 22.93 22.95 22.83     |                          |                        |                     |          |  |
| 30              | QPSK       | 80      | 0         | 22.99 22.98 22.54     |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 80      | 40        | 22.92 22.96 22.90     |                          |                        |                     |          |  |
| 30              | QPSK       | 80      | 80        | 22.52 22.55 22.35     |                          |                        | 24.0                | 0.0      |  |
| 30              | QPSK       | 160     | 0         | 22.94 22.96 22.37     |                          |                        |                     |          |  |
| 30              | 16QAM      | 1       | 1         | 22.90 22.88 22.84     |                          |                        | 24.0                | 0.0      |  |
| 30              | 64QAM      | 1       | 1         | 21.38 21.42 22.26     |                          |                        |                     |          |  |
| 30              | 256QAM     | 1       | 1         | 19.39 19.42 19.30     |                          |                        | 24.0                | 0.0      |  |
| Channel         |            |         |           | 135100 136100 137100  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 675.5 680.5 685.5     |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 23.18 23.27 23.09     |                          |                        | 24.0                | 0.0      |  |
| Channel         |            |         |           | 134600 136100 137600  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 673 680.5 688         |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 23.20 23.24 23.06     |                          |                        | 24.0                | 0.0      |  |
| Channel         |            |         |           | 134100 136100 138100  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 670.5 680.5 690.5     |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 23.26 23.27 23.09     |                          |                        | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133200 134100 135000  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 668 680.5 693         |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 23.18 23.24 23.05     |                          |                        | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133100 136100 139100  |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 665.5 680.5 695.5     |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 23.23 23.23 23.05     |                          |                        | 24.0                | 0.0      |  |

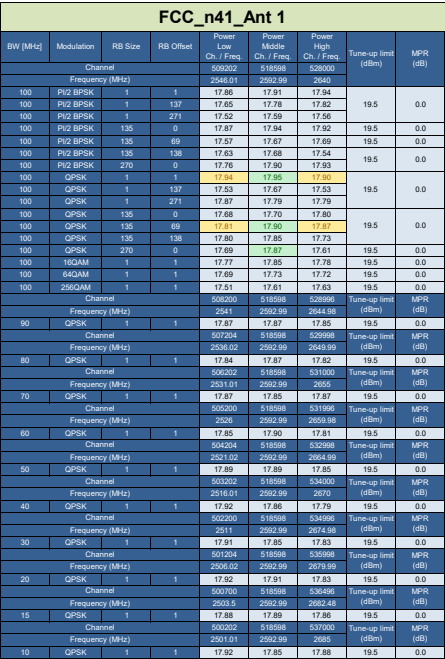


| n38_Ant 9       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pi/2 BPSK  | 1       | 1         | 19.78                 | 19.82                    | 19.75                  |                     |          |  |
| 40              | Pi/2 BPSK  | 1       | 53        | 19.83                 | 19.85                    | 19.68                  | 21.0                | 0.0      |  |
| 40              | Pi/2 BPSK  | 1       | 104       | 19.73                 | 19.62                    | 19.64                  |                     |          |  |
| 40              | Pi/2 BPSK  | 50      | 0         | 19.81                 | 19.86                    | 19.79                  | 21.0                | 0.0      |  |
| 40              | Pi/2 BPSK  | 50      | 28        | 19.74                 | 19.81                    | 19.83                  | 21.0                | 0.0      |  |
| 40              | Pi/2 BPSK  | 50      | 56        | 19.85                 | 19.84                    | 19.78                  | 21.0                | 0.0      |  |
| 40              | Pi/2 BPSK  | 100     | 0         | 19.89                 | 19.87                    | 19.64                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.85                 | 19.88                    | 19.86                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 19.78                 | 19.85                    | 19.80                  | 21.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 19.74                 | 19.65                    | 19.73                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 19.74                 | 19.74                    | 19.62                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 19.75                 | 19.85                    | 19.83                  | 21.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 19.74                 | 19.58                    | 19.80                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 19.77                 | 19.81                    | 19.75                  | 21.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 19.76                 | 19.79                    | 19.86                  | 21.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 19.87                 | 19.84                    | 19.77                  | 21.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 19.77                 | 19.75                    | 19.54                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2565.01               | 2565                     | 2564.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 19.80                 | 19.79                    | 19.82                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2560                  | 2565                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 19.80                 | 19.87                    | 19.79                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2565                     | 2612.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.83                 | 19.78                    | 19.83                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2565                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.75                 | 19.83                    | 19.76                  | 21.0                | 0.0      |  |

| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2560.02               | 2565                     | 2569.98                |                     |          |  |
| 40              | Pi/2 BPSK  | 1       | 1         | 19.38                 | 19.31                    | 19.43                  |                     |          |  |
| 40              | Pi/2 BPSK  | 1       | 53        | 19.27                 | 19.20                    | 19.10                  | 19.5                | 0.0      |  |
| 40              | Pi/2 BPSK  | 1       | 104       | 19.15                 | 19.29                    | 19.29                  |                     |          |  |
| 40              | Pi/2 BPSK  | 50      | 0         | 19.26                 | 19.42                    | 19.38                  | 19.5                | 0.0      |  |
| 40              | Pi/2 BPSK  | 50      | 28        | 19.33                 | 19.19                    | 19.30                  | 19.5                | 0.0      |  |
| 40              | Pi/2 BPSK  | 50      | 56        | 19.20                 | 19.26                    | 19.18                  | 19.5                | 0.0      |  |
| 40              | Pi/2 BPSK  | 100     | 0         | 19.42                 | 19.41                    | 19.32                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.40                 | 19.43                    | 19.43                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 19.19                 | 19.30                    | 19.31                  | 19.5                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 19.24                 | 19.39                    | 19.42                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 19.26                 | 19.25                    | 19.34                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 19.17                 | 19.45                    | 19.18                  | 19.5                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 19.24                 | 19.27                    | 19.25                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 19.18                 | 19.23                    | 19.18                  | 19.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 19.46                 | 19.47                    | 19.43                  | 19.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 19.13                 | 19.26                    | 19.20                  | 19.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 19.24                 | 19.35                    | 19.35                  | 19.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2565.01               | 2565                     | 2564.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 19.36                 | 19.44                    | 19.35                  | 19.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 520000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2560                  | 2565                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 19.37                 | 19.47                    | 19.34                  | 19.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2565                     | 2612.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.32                 | 19.38                    | 19.39                  | 19.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 519000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2565                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.35                 | 19.42                    | 19.41                  | 19.5                | 0.0      |  |

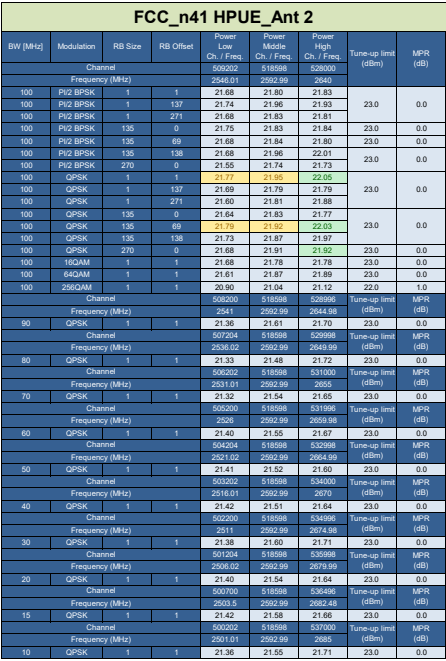
| FCC_n41_Ant 9   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506200                | 518698                   | 528600                 |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 1         | 19.85                 | 19.85                    | 19.88                  |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 137       | 19.61                 | 19.89                    | 19.83                  | 21.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 1       | 271       | 19.89                 | 19.73                    | 19.72                  |                     |          |  |
| 100             | Pi/2 BPSK  | 135     | 0         | 19.86                 | 19.90                    | 19.84                  | 21.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 69        | 19.65                 | 19.90                    | 19.76                  | 21.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 138       | 19.88                 | 19.72                    | 19.51                  | 21.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 270     | 0         | 19.89                 | 19.67                    | 19.66                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 19.85                 | 19.82                    | 19.81                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 19.80                 | 19.70                    | 19.71                  | 21.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 19.83                 | 19.83                    | 19.90                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 19.61                 | 19.81                    | 19.85                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 19.76                 | 19.91                    | 19.70                  | 21.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 19.74                 | 19.81                    | 19.65                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 19.70                 | 19.89                    | 19.84                  | 21.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 19.85                 | 19.83                    | 19.85                  | 21.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 19.69                 | 19.74                    | 19.77                  | 21.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 19.89                 | 19.76                    | 19.78                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506200                | 518698                   | 528698                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2524.01               | 2592.99                  | 2654.98                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 19.79                 | 19.83                    | 19.87                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518698                   | 529698                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 19.75                 | 19.81                    | 19.81                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518698                   | 531698                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2506.02               | 2592.99                  | 2659.98                |                     |          |  |
| 70              | QPSK       | 1       | 1         | 19.74                 | 19.83                    | 19.87                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503200                | 518698                   | 533698                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2496.02               | 2592.99                  | 2674.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 19.83                 | 19.86                    | 19.80                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518698                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2521.02               | 2592.99                  | 2654.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 19.75                 | 19.88                    | 19.80                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502202                | 518698                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.76                 | 19.88                    | 19.87                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518698                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 19.83                 | 19.81                    | 19.86                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518698                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 19.81                 | 19.83                    | 19.81                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500200                | 518698                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2500.05               | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.74                 | 19.82                    | 19.85                  | 21.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500200                | 518698                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2500.01               | 2592.99                  | 2688                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.77                 | 19.84                    | 19.83                  | 21.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.02                | 21.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 2546.01               | 2592.99                  | 2546.01                |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 1         | 19.85                 | 19.85                    | 19.88                  | 21.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 1       | 137       | 19.61                 | 19.89                    | 19.83                  |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 271       | 19.89                 | 19.73                    | 19.72                  | 21.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 0         | 19.86                 | 19.90                    | 19.84                  |                     |          |  |
| 100                | PQ2 BPSK   | 135     | 69        | 19.65                 | 19.90                    | 19.76                  | 21.0                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 138       | 19.88                 | 19.72                    | 19.51                  |                     |          |  |
| 100                | PQ2 BPSK   | 270     | 0         | 19.89                 | 19.67                    | 19.86                  | 21.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 19.85                 | 19.85                    | 19.81                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 19.80                 | 19.70                    | 19.71                  | 21.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 19.83                 | 19.83                    | 19.90                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 19.61                 | 19.81                    | 19.85                  | 21.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 19.85                 | 19.81                    | 19.81                  |                     |          |  |
| 100                | QPSK       | 135     | 138       | 19.74                 | 19.81                    | 19.65                  | 21.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 19.70                 | 19.89                    | 19.84                  |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 19.85                 | 19.83                    | 19.85                  | 21.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 19.69                 | 19.74                    | 19.77                  |                     |          |  |
| 100                | 256QAM     | 1       | 1         | 19.89                 | 19.76                    | 19.78                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 5060.00               | 5189.98                  | 5289.96                |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2544                  | 2592.99                  | 2544.98                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 19.70                 | 19.83                    | 19.87                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529998                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2549.99                |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 19.75                 | 19.81                    | 19.81                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5210.02                |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2585                   |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 19.74                 | 19.83                    | 19.87                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 505200                | 518998                   | 531998                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2544                  | 2592.99                  | 2584.98                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 19.83                 | 19.86                    | 19.80                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518998                   | 532998                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2584.99                |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 19.73                 | 19.83                    | 19.80                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 503202                | 518998                   | 534000                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 19.76                 | 19.88                    | 19.87                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 502200                | 518998                   | 535998                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 19.83                 | 19.81                    | 19.86                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518998                   | 535998                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2508.02               | 2592.99                  | 2678.99                |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 19.81                 | 19.83                    | 19.81                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518998                   | 536496                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 19.74                 | 19.82                    | 19.85                  | 21.0                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518998                   | 537000                 |                     | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2686                   |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 19.77                 | 19.84                    | 19.83                  | 21.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |



| FCC_n41 HPUE_Ant 1 |                 |         |           |                      |                       |                      |                       |                     |          |
|--------------------|-----------------|---------|-----------|----------------------|-----------------------|----------------------|-----------------------|---------------------|----------|
| BW (MHz)           | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Low Ch / Freq. | Power High Ch / Freq. | Time-up limit (dBm) | MPR (dB) |
|                    | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                    | Frequency (MHz) |         |           | 2560.00              | 2560.00               | 2560.00              | 2560.00               |                     |          |
| 100                | PV2 BPSK        | 1       | 1         | 17.66                | 17.91                 | 17.91                | 17.91                 |                     |          |
| 100                | PV2 BPSK        | 1       | 137       | 17.65                | 17.92                 | 17.92                | 17.92                 | 19.5                | 0.0      |
| 100                | PV2 BPSK        | 135     | 0         | 17.57                | 17.88                 | 17.88                | 17.88                 | 19.5                | 0.0      |
| 100                | PV2 BPSK        | 135     | 0         | 17.87                | 17.94                 | 17.94                | 17.95                 | 19.5                | 0.0      |
| 100                | PV2 BPSK        | 135     | 69        | 17.57                | 17.87                 | 17.89                | 17.95                 | 19.5                | 0.0      |
| 100                | PV2 BPSK        | 135     | 138       | 17.63                | 17.68                 | 17.68                | 17.68                 | 19.5                | 0.0      |
| 100                | PV2 BPSK        | 270     | 0         | 17.76                | 17.88                 | 17.88                | 17.88                 | 19.5                | 0.0      |
| 100                | QPSK            | 1       | 1         | 17.54                | 17.85                 | 17.85                | 17.85                 |                     |          |
| 100                | QPSK            | 1       | 137       | 17.53                | 17.87                 | 17.83                | 17.83                 | 19.5                | 0.0      |
| 100                | QPSK            | 1       | 271       | 17.68                | 17.79                 | 17.79                | 17.79                 |                     |          |
| 100                | QPSK            | 135     | 0         | 17.68                | 17.78                 | 17.88                | 17.88                 | 19.5                | 0.0      |
| 100                | QPSK            | 135     | 69        | 17.81                | 17.90                 | 17.97                | 17.97                 | 19.5                | 0.0      |
| 100                | QPSK            | 135     | 138       | 17.80                | 17.85                 | 17.73                | 17.73                 | 19.5                | 0.0      |
| 100                | QPSK            | 270     | 0         | 17.89                | 17.87                 | 17.81                | 17.81                 | 19.5                | 0.0      |
| 100                | 16QAM           | 1       | 1         | 17.77                | 17.85                 | 17.78                | 17.78                 | 19.5                | 0.0      |
| 100                | 64QAM           | 1       | 1         | 17.69                | 17.73                 | 17.72                | 17.72                 | 19.5                | 0.0      |
| 100                | 256QAM          | 1       | 1         | 17.51                | 17.81                 | 17.63                | 17.63                 | 19.5                | 0.0      |
|                    | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                    | Frequency (MHz) |         |           | 503200               | 516598                | 526998               | 526998                | Time-up limit (dBm) | MPR (dB) |
| 90                 | QPSK            | 1       | 1         | 17.87                | 17.87                 | 17.85                | 17.85                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 507204               | 516598                | 526998               | 526998                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2561.00              | 2562.00               | 2562.00              | 2562.00               |                     |          |
| 80                 | QPSK            | 1       | 1         | 17.84                | 17.87                 | 17.87                | 17.87                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 506202               | 516598                | 531005               | 531005                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2551.01              | 2550.98               | 2550.98              | 2550.98               |                     |          |
| 70                 | QPSK            | 1       | 1         | 17.87                | 17.85                 | 17.87                | 17.87                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 2561.00              | 516598                | 531005               | 531005                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2526                 | 2562.00               | 2659.98              | 2659.98               |                     |          |
| 60                 | QPSK            | 1       | 1         | 17.85                | 17.80                 | 17.81                | 17.81                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 505205               | 516598                | 526998               | 526998                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2552.10              | 2552.00               | 2605.99              | 2605.99               |                     |          |
| 50                 | QPSK            | 1       | 1         | 17.89                | 17.89                 | 17.85                | 17.85                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 505202               | 516598                | 534000               | 534000                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2614.00              | 2615.00               | 2620.00              | 2620.00               |                     |          |
| 40                 | QPSK            | 1       | 1         | 17.92                | 17.86                 | 17.79                | 17.79                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 502200               | 518598                | 543998               | 543998                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2571.01              | 2552.00               | 2674.98              | 2674.98               |                     |          |
| 30                 | QPSK            | 1       | 1         | 17.91                | 17.83                 | 17.83                | 17.83                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 501204               | 516598                | 535998               | 535998                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2560.02              | 2562.00               | 2679.99              | 2679.99               |                     |          |
| 20                 | QPSK            | 1       | 1         | 17.92                | 17.81                 | 17.83                | 17.83                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 500205               | 516598                | 538998               | 538998                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2550.15              | 2562.00               | 2682.48              | 2682.48               |                     |          |
| 15                 | QPSK            | 1       | 1         | 17.88                | 17.89                 | 17.86                | 17.86                 | 19.5                | 0.0      |
|                    | Channel         |         |           | 500205               | 516598                | 537000               | 537000                | Time-up limit (dBm) | MPR (dB) |
|                    | Frequency (MHz) |         |           | 2549.10              | 2562.00               | 2688.00              | 2688.00               |                     |          |
| 10                 | QPSK            | 1       | 1         | 17.92                | 17.85                 | 17.88                | 17.88                 | 19.5                | 0.0      |

| FCC_n41_Ant 2   |            |         |           |                      |                       |                             |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Power High Ch / Freq. | Time-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 90              | P1/2 BPSK  | 1       | 1         | 21.68                | 21.80                 | 21.80                       |                     |          |  |
| 100             | P1/2 BPSK  | 1       | 137       | 21.74                | 21.79                 | 21.79                       | 23.0                | 0.0      |  |
| 100             | P1/2 BPSK  | 1       | 231       | 21.68                | 21.83                 | 21.81                       |                     |          |  |
| 100             | P1/2 BPSK  | 135     | 0         | 21.75                | 21.83                 | 21.84                       |                     |          |  |
| 100             | P1/2 BPSK  | 135     | 69        | 21.68                | 21.84                 | 21.80                       | 23.0                | 0.0      |  |
| 100             | P1/2 BPSK  | 135     | 136       | 21.68                | 21.89                 | 22.01                       |                     |          |  |
| 100             | P1/2 BPSK  | 270     | 0         | 21.58                | 21.74                 | 21.73                       |                     |          |  |
| 100             | QPSK       | 1       | 1         | 21.77                | 21.85                 | 21.85                       |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.69                | 21.79                 | 21.78                       | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 21.65                | 21.81                 | 21.88                       |                     |          |  |
| 100             | QPSK       | 135     | 0         | 21.64                | 21.83                 | 21.83                       |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.79                | 21.92                 | 22.03                       | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 136       | 21.73                | 21.87                 | 21.97                       |                     |          |  |
| 100             | QPSK       | 270     | 0         | 21.68                | 21.91                 | 21.92                       | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.68                | 21.78                 | 21.78                       | 23.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.61                | 21.87                 | 21.89                       |                     |          |  |
| 100             | 256QAM     | 1       | 1         | 20.90                | 21.04                 | 21.12                       | 22.0                | 1.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 90              | QPSK       | 1       | 1         | 21.36                | 21.61                 | 21.70                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 80              | QPSK       | 1       | 1         | 21.33                | 21.48                 | 21.72                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 70              | QPSK       | 1       | 1         | 21.32                | 21.62                 | 21.65                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 60              | QPSK       | 1       | 1         | 21.40                | 21.55                 | 21.67                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 50              | QPSK       | 1       | 1         | 21.41                | 21.52                 | 21.60                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 40              | QPSK       | 1       | 1         | 21.42                | 21.51                 | 21.64                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 30              | QPSK       | 1       | 1         | 21.38                | 21.50                 | 21.58                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 20              | QPSK       | 1       | 1         | 21.40                | 21.54                 | 21.64                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 15              | QPSK       | 1       | 1         | 21.42                | 21.58                 | 21.66                       | 23.0                | 0.0      |  |
| Channel         |            |         |           |                      |                       |                             |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                             |                     |          |  |
| 10              | QPSK       | 1       | 1         | 21.36                | 21.55                 | 21.71                       | 23.0                | 0.0      |  |



| FCC_n41_Ant 6   |            |         |           |                      |                       |                      |                       |                      |          |
|-----------------|------------|---------|-----------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Low Ch / Freq. | Power High Ch / Freq. | Time-up limit (dflm) | MPR (db) |
| Channel         |            |         |           | 506022               | 516988                | 528000               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 100             | PV2 BPSK   | 1       | 1         | 17.23                | 17.23                 | 17.11                |                       |                      |          |
| 100             | PV2 BPSK   | 1       | 137       | 17.17                | 17.21                 | 17.26                | 18.5                  |                      | 0.0      |
| 100             | PV2 BPSK   | 1       | 271       | 17.26                | 17.20                 | 17.12                |                       |                      |          |
| 100             | PV2 BPSK   | 135     | 0         | 17.26                | 17.23                 | 17.15                | 18.5                  |                      | 0.0      |
| 100             | PV2 BPSK   | 135     | 69        | 17.21                | 17.23                 | 17.12                |                       |                      |          |
| 100             | PV2 BPSK   | 135     | 136       | 17.24                | 17.32                 | 17.08                |                       |                      |          |
| 100             | PV2 BPSK   | 270     | 0         | 17.26                | 17.23                 | 17.12                | 18.5                  |                      | 0.0      |
| 100             | QPSK       | 1       | 1         | 17.32                | 17.36                 | 17.28                |                       |                      |          |
| 100             | QPSK       | 1       | 137       | 17.26                | 17.21                 | 17.26                |                       |                      |          |
| 100             | QPSK       | 1       | 271       | 17.26                | 17.23                 | 17.12                | 18.5                  |                      | 0.0      |
| 100             | QPSK       | 135     | 0         | 17.21                | 17.26                 | 17.11                |                       |                      |          |
| 100             | QPSK       | 135     | 69        | 17.21                | 17.33                 | 17.23                | 18.5                  |                      | 0.0      |
| 100             | QPSK       | 135     | 136       | 17.26                | 17.16                 | 17.13                |                       |                      |          |
| 100             | QPSK       | 270     | 0         | 17.26                | 17.24                 | 17.21                |                       |                      |          |
| 100             | 16QAM      | 1       | 1         | 17.24                | 17.33                 | 17.19                | 18.5                  |                      | 0.0      |
| 100             | 64QAM      | 1       | 1         | 17.26                | 17.22                 | 17.20                | 18.5                  |                      | 0.0      |
| 100             | 256QAM     | 1       | 1         | 17.19                | 17.20                 | 17.33                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 506023               | 516993                | 528009               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 90              | QPSK       | 1       | 1         | 17.30                | 17.34                 | 17.15                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 507204               | 516988                | 529998               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 80              | QPSK       | 1       | 1         | 17.28                | 17.27                 | 17.10                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 506022               | 516988                | 531000               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 70              | QPSK       | 1       | 1         | 17.23                | 17.26                 | 17.22                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 506023               | 516993                | 531009               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 60              | QPSK       | 1       | 1         | 17.24                | 17.33                 | 17.15                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 504204               | 516988                | 533098               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 50              | QPSK       | 1       | 1         | 17.24                | 17.33                 | 17.19                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 506022               | 516988                | 534000               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 40              | QPSK       | 1       | 1         | 17.26                | 17.34                 | 17.22                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 506023               | 516993                | 534999               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 30              | QPSK       | 1       | 1         | 17.25                | 17.32                 | 17.24                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 501204               | 516988                | 535998               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 20              | QPSK       | 1       | 1         | 17.24                | 17.31                 | 17.21                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 500700               | 516988                | 536498               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 15              | QPSK       | 1       | 1         | 17.27                | 17.26                 | 17.20                | 18.5                  |                      | 0.0      |
| Channel         |            |         |           | 500700               | 516988                | 537000               |                       |                      |          |
| Frequency (MHz) |            |         |           |                      |                       |                      |                       |                      |          |
| 10              | QPSK       | 1x1     | 1         | 17.28                | 17.33                 | 17.17                | 18.5                  |                      | 0.0      |

| FCC_n41 HPUE_Ant 6 |            |         |           |                              |                              |                              |                      |             |  |
|--------------------|------------|---------|-----------|------------------------------|------------------------------|------------------------------|----------------------|-------------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power<br>Level<br>Ch / Freq. | Power<br>Level<br>Ch / Freq. | Power<br>Level<br>Ch / Freq. | Time-up limit<br>(s) | MPR<br>(dB) |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 506022                       | 518698                       | 520800                       |                      |             |  |
| 100                | P2-8PSK    | 1       | 1         | 17.29                        | 17.23                        | 17.11                        |                      |             |  |
| 100                | P2-8PSK    | 1       | 137       | 17.17                        | 17.21                        | 17.29                        | 18.5                 | 0.0         |  |
| 100                | P2-8PSK    | 137     | 1         | 17.26                        | 17.20                        | 17.12                        |                      |             |  |
| 100                | P2-8PSK    | 135     | 0         | 17.26                        | 17.32                        | 17.15                        | 18.5                 | 0.0         |  |
| 100                | P2-8PSK    | 135     | 69        | 17.21                        | 17.23                        | 17.18                        | 18.5                 | 0.0         |  |
| 100                | P2-8PSK    | 135     | 136       | 17.24                        | 17.25                        | 17.12                        |                      |             |  |
| 100                | P2-8PSK    | 270     | 0         | 17.26                        | 17.23                        | 17.12                        | 18.5                 | 0.0         |  |
| 100                | QPSK       | 1       | 1         | 17.32                        | 17.38                        | 17.28                        |                      |             |  |
| 100                | QPSK       | 1       | 137       | 17.26                        | 17.21                        | 17.29                        | 18.5                 | 0.0         |  |
| 100                | QPSK       | 1       | 271       | 17.23                        | 17.23                        | 17.12                        |                      |             |  |
| 100                | QPSK       | 135     | 0         | 17.21                        | 17.26                        | 17.11                        |                      |             |  |
| 100                | QPSK       | 135     | 69        | 17.27                        | 17.33                        | 17.23                        | 18.5                 | 0.0         |  |
| 100                | QPSK       | 135     | 136       | 17.26                        | 17.16                        | 17.13                        |                      |             |  |
| 100                | QPSK       | 270     | 0         | 17.24                        | 17.24                        | 17.21                        |                      |             |  |
| 100                | 16QAM      | 1       | 1         | 17.24                        | 17.33                        | 17.19                        | 18.5                 | 0.0         |  |
| 100                | 64QAM      | 1       | 1         | 17.26                        | 17.22                        | 17.20                        | 18.5                 | 0.0         |  |
| 100                | 256QAM     | 1       | 1         | 17.19                        | 17.20                        | 17.33                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 2551                         | 2592.9                       | 2594.88                      |                      |             |  |
| 80                 | QPSK       | 1       | 1         | 17.30                        | 17.34                        | 17.15                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           | 507204                       | 518698                       | 520998                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| Frequency (MHz)    |            |         |           | 2551.82                      | 2592.9                       | 2594.88                      |                      |             |  |
| 80                 | QPSK       | 1       | 1         | 17.28                        | 17.27                        | 17.11                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 506022                       | 518698                       | 531000                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 70                 | QPSK       | 1       | 1         | 17.23                        | 17.26                        | 17.22                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 2550.25                      | 2592.9                       | 2595.98                      | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 60                 | QPSK       | 1       | 1         | 17.22                        | 17.33                        | 17.15                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 504204                       | 518698                       | 533098                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 50                 | QPSK       | 1       | 1         | 17.24                        | 17.33                        | 17.19                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 505002                       | 518698                       | 534000                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 40                 | QPSK       | 1       | 1         | 17.26                        | 17.34                        | 17.22                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 2551                         | 2592.9                       | 2674.98                      | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 30                 | QPSK       | 1       | 1         | 17.22                        | 17.27                        | 17.24                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 507204                       | 518698                       | 535998                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 20                 | QPSK       | 1       | 1         | 17.24                        | 17.31                        | 17.21                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 500700                       | 518698                       | 536498                       | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 15                 | QPSK       | 1       | 1         | 17.22                        | 17.26                        | 17.20                        | 18.5                 | 0.0         |  |
| Channel            |            |         |           |                              |                              |                              |                      |             |  |
| Frequency (MHz)    |            |         |           | 2501.61                      | 2592.9                       | 2688                         | Time-up limit<br>(s) | MPR<br>(dB) |  |
| 10                 | QPSK       | 1       | 1         | 17.28                        | 17.37                        | 17.17                        | 18.5                 | 0.0         |  |

| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 1         | 21.69                 | 22.00                    | 21.71                  |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 137       | 21.66                 | 22.00                    | 21.60                  | 23.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 1       | 271       | 21.71                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | Pi/2 BPSK  | 135     | 0         | 21.66                 | 22.04                    | 21.67                  | 23.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 69        | 21.77                 | 22.03                    | 21.59                  | 23.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 135       | 21.67                 | 21.98                    | 21.62                  |                     |          |  |
| 100             | Pi/2 BPSK  | 270     | 0         | 21.73                 | 22.01                    | 21.68                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 21.78                 | 22.07                    | 21.74                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 21.74                 | 22.02                    | 21.62                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 21.76                 | 22.02                    | 21.71                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 21.86                 | 21.98                    | 21.59                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 21.77                 | 22.02                    | 21.66                  | 23.0                | 0.0      |  |
| 100             | QPSK       | 135     | 135       | 21.88                 | 21.98                    | 21.62                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 21.76                 | 21.96                    | 21.66                  | 23.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 21.84                 | 21.97                    | 21.73                  | 23.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 1.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80              | QPSK       | 1       | 1         | 21.72                 | 22.06                    | 21.64                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80              | QPSK       | 1       | 1         | 21.73                 | 21.98                    | 21.70                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70              | QPSK       | 1       | 1         | 21.51.01              | 2592.99                  | 2665                   |                     |          |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60              | QPSK       | 1       | 1         | 21.78                 | 21.98                    | 21.62                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50              | QPSK       | 1       | 1         | 21.71                 | 22.00                    | 21.73                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40              | QPSK       | 1       | 1         | 21.64                 | 22.01                    | 21.72                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518598                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 21.69                 | 21.98                    | 21.68                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 21.74                 | 21.99                    | 21.61                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 21.74                 | 22.04                    | 21.59                  | 23.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500700                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 21.68                 | 22.03                    | 21.72                  | 23.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                 | Pi/2 BPSK  | 1       | 1         | 23.76                 | 23.90                    | 23.60                  |                     |          |  |
| 100                 | Pi/2 BPSK  | 1       | 137       | 23.64                 | 23.85                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 1       | 271       | 23.73                 | 23.89                    | 23.62                  |                     |          |  |
| 100                 | Pi/2 BPSK  | 135     | 0         | 23.47                 | 23.56                    | 23.31                  | 24.5                | 0.5      |  |
| 100                 | Pi/2 BPSK  | 135     | 69        | 23.69                 | 23.87                    | 23.65                  | 25.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 135     | 135       | 23.35                 | 23.60                    | 23.27                  |                     |          |  |
| 100                 | Pi/2 BPSK  | 270     | 0         | 23.45                 | 23.60                    | 23.22                  | 24.5                | 0.5      |  |
| 100                 | QPSK       | 1       | 1         | 23.70                 | 23.99                    | 23.66                  |                     |          |  |
| 100                 | QPSK       | 1       | 137       | 23.65                 | 23.89                    | 23.51                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 1       | 271       | 23.70                 | 23.88                    | 23.59                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 22.88                 | 22.80                    | 22.43                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 23.16                 | 23.95                    | 23.61                  | 25.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 135       | 22.73                 | 22.88                    | 22.37                  |                     |          |  |
| 100                 | QPSK       | 270     | 0         | 22.86                 | 22.94                    | 22.52                  | 24.0                | 1.0      |  |
| 100                 | 16QAM      | 1       | 1         | 22.86                 | 22.97                    | 22.84                  | 24.0                | 1.0      |  |
| 100                 | 64QAM      | 1       | 1         | 21.36                 | 21.43                    | 21.21                  | 22.5                | 2.5      |  |
| 100                 | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 3.5      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                  | QPSK       | 1       | 1         | 22.41                 | 2592.99                  | 2644.98                |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                  | QPSK       | 1       | 1         | 23.67                 | 23.83                    | 23.50                  | 25.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                  | QPSK       | 1       | 1         | 23.62                 | 23.87                    | 23.59                  | 25.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                  | QPSK       | 1       | 1         | 23.65                 | 23.90                    | 23.54                  | 25.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                  | QPSK       | 1       | 1         | 2321.02               | 2592.99                  | 2654.98                |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 502202                | 518598                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                  | QPSK       | 1       | 1         | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 502200                | 518598                   | 530998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                  | QPSK       | 1       | 1         | 23.71                 | 23.91                    | 23.58                  | 25.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                  | QPSK       | 1       | 1         | 2508.02               | 2592.99                  | 2678.99                |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                  | QPSK       | 1       | 1         | 2503.5                | 2592.99                  | 2652.48                |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 500700                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                  | QPSK       | 1       | 1         | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           | 500700                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                  | QPSK       | 1       | 1         | 23.83                 | 23.79                    | 23.56                  | 25.0                | 0.0      |  |

| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 636000                | 641666                   | 645332                 |                     |          |  |
| 40               | Pi/2 BPSK  | 1       | 1         | 17.18                 | 17.18                    | 17.10                  |                     |          |  |
| 40               | Pi/2 BPSK  | 1       | 53        | 17.17                 | 17.21                    | 17.13                  | 18.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 1       | 104       | 17.24                 | 17.27                    | 17.10                  |                     |          |  |
| 40               | Pi/2 BPSK  | 50      | 0         | 17.16                 | 17.20                    | 17.19                  | 18.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 50      | 26        | 17.13                 | 17.13                    | 17.12                  | 18.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 50      | 56        | 17.22                 | 17.19                    | 17.14                  |                     |          |  |
| 40               | Pi/2 BPSK  | 100     | 0         | 17.15                 | 17.15                    | 17.17                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 1       | 1         | 17.27                 | 17.31                    | 17.21                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 17.17                 | 17.19                    | 17.11                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 17.23                 | 17.18                    | 17.07                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 17.13                 | 17.19                    | 17.15                  |                     |          |  |
| 40               | QPSK       | 50      | 26        | 17.25                 | 17.28                    | 17.20                  | 18.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 17.21                 | 17.18                    | 17.11                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 17.19                 | 17.24                    | 17.08                  | 18.0                | 0.0      |  |
| 40               | 16QAM      | 1       | 1         | 17.19                 | 17.22                    | 17.12                  | 18.0                | 0.0      |  |
| 40               | 64QAM      | 1       | 1         | 17.21                 | 17.11                    | 17.07                  | 18.0                | 0.0      |  |
| 40               | 256QAM     | 1       | 1         | 17.12                 | 17.18                    | 17.15                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 636652                | 641666                   | 645668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30               | QPSK       | 1       | 1         | 17.17                 | 17.20                    | 17.15                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 636000                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20               | QPSK       | 1       | 1         | 17.25                 | 17.20                    | 17.17                  | 18.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           | 637000                | 641666                   | 645332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10               | QPSK       | 1       | 1         | 17.24                 | 17.25                    | 17.10                  | 18.0                | 0.0      |  |

| Part96_n48_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |  |  |  |
| Channel          |            |         |           | 636000                | 641666                   | 646332                 |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 1       | 1         | 21.22                 | 21.02                    | 20.74                  | 22.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 1       | 53        | 21.24                 | 21.05                    | 20.74                  |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 1       | 104       | 21.26                 | 20.99                    | 20.89                  |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 50      | 0         | 21.24                 | 21.04                    | 20.90                  | 22.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 50      | 28        | 21.18                 | 21.12                    | 20.95                  | 22.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 50      | 56        | 21.26                 | 21.12                    | 20.98                  | 22.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 100     | 0         | 21.19                 | 21.07                    | 20.92                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 1         | 21.27                 | 21.10                    | 20.97                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 53        | 21.17                 | 20.97                    | 20.92                  | 22.5                | 0.0      |  |  |  |
| 40               | QPSK       | 1       | 104       | 21.26                 | 21.04                    | 20.89                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 0         | 21.25                 | 20.97                    | 20.74                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 28        | 21.26                 | 21.17                    | 20.95                  | 22.5                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 56        | 21.24                 | 21.05                    | 20.71                  |                     |          |  |  |  |
| 40               | QPSK       | 100     | 0         | 21.20                 | 21.04                    | 20.74                  |                     |          |  |  |  |
| 40               | 16QAM      | 1       | 1         | 21.24                 | 21.13                    | 20.78                  | 22.5                | 0.0      |  |  |  |
| 40               | 64QAM      | 1       | 1         | 18.71                 | 18.62                    | 18.92                  | 21.5                | 1.0      |  |  |  |
| 40               | 256QAM     | 1       | 1         | 16.87                 | 16.83                    | 17.12                  | 19.5                | 3.0      |  |  |  |
| Channel          |            |         |           | 637668                | 641666                   | 645668                 |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           | 3565.02               | 3624.99                  | 3684.98                |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 21.25                 | 21.09                    | 20.93                  | 22.5                | 0.0      |  |  |  |
| Channel          |            |         |           | 637334                | 641666                   | 646000                 |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 21.17                 | 21.07                    | 20.87                  | 22.5                | 0.0      |  |  |  |
| Channel          |            |         |           | 637000                | 641666                   | 646332                 |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           | 3565                  | 3624.99                  | 3684.98                |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 21.16                 | 21.01                    | 20.92                  | 22.5                | 0.0      |  |  |  |

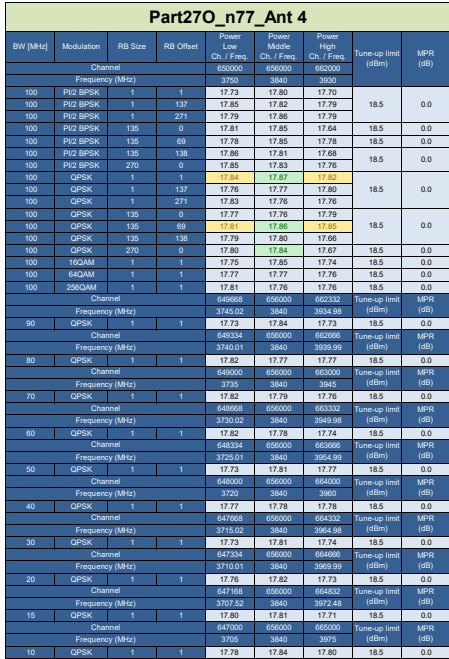




| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40                | Pl2 BPSK   | 1       | 1         | 15.05                 | 14.98                    | 15.03                  | 16.0                | 0.0      |  |  |  |
| 40                | Pl2 BPSK   | 1       | 53        | 15.00                 | 15.06                    | 14.97                  |                     |          |  |  |  |
| 40                | Pl2 BPSK   | 1       | 104       | 15.02                 | 14.98                    | 15.05                  |                     |          |  |  |  |
| 40                | Pl2 BPSK   | 50      | 0         | 15.07                 | 15.01                    | 15.06                  | 16.0                | 0.0      |  |  |  |
| 40                | Pl2 BPSK   | 50      | 28        | 15.04                 | 15.06                    | 15.04                  | 16.0                | 0.0      |  |  |  |
| 40                | Pl2 BPSK   | 50      | 56        | 15.07                 | 15.07                    | 14.95                  | 16.0                | 0.0      |  |  |  |
| 40                | Pl2 BPSK   | 100     | 0         | 15.02                 | 15.06                    | 15.05                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 1         | 15.05                 | 15.08                    | 15.01                  |                     |          |  |  |  |
| 40                | QPSK       | 1       | 53        | 15.03                 | 15.06                    | 14.91                  | 16.0                | 0.0      |  |  |  |
| 40                | QPSK       | 1       | 104       | 15.02                 | 15.04                    | 14.93                  | 16.0                | 0.0      |  |  |  |
| 40                | QPSK       | 50      | 0         | 15.03                 | 15.06                    | 14.94                  |                     |          |  |  |  |
| 40                | QPSK       | 50      | 28        | 15.04                 | 15.07                    | 15.02                  |                     |          |  |  |  |
| 40                | QPSK       | 50      | 56        | 15.02                 | 15.00                    | 14.98                  | 16.0                | 0.0      |  |  |  |
| 40                | QPSK       | 100     | 0         | 15.05                 | 15.06                    | 15.00                  |                     |          |  |  |  |
| 40                | 16QAM      | 1       | 1         | 15.01                 | 15.00                    | 14.97                  | 16.0                | 0.0      |  |  |  |
| 40                | 64QAM      | 1       | 1         | 15.01                 | 15.06                    | 15.02                  | 16.0                | 0.0      |  |  |  |
| 40                | 256QAM     | 1       | 1         | 14.98                 | 15.05                    | 15.00                  | 16.0                | 0.0      |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30                | QPSK       | 1       | 1         | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20                | QPSK       | 1       | 1         | 637334                | 641666                   | 645000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10                | QPSK       | 1       | 1         | 3565                  | 3624.99                  | 3694.98                | Tune-up limit (dBm) | MPR (dB) |  |  |  |

| Part96_n48_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW (MHz)         | Modulation | Channel | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 1       | 1         | 19.14                 | 19.19                    | 18.88                  | 20.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 1       | 53        | 19.10                 | 19.17                    | 19.01                  |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 1       | 104       | 19.14                 | 19.14                    | 18.93                  |                     |          |  |  |  |
| 40               | Pl2 BPSK   | 50      | 0         | 19.09                 | 19.13                    | 18.81                  | 20.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 50      | 28        | 19.14                 | 19.20                    | 18.90                  | 20.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 50      | 56        | 19.15                 | 19.11                    | 18.85                  | 20.5                | 0.0      |  |  |  |
| 40               | Pl2 BPSK   | 100     | 0         | 19.17                 | 19.17                    | 18.95                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 1         | 19.19                 | 19.21                    | 19.07                  |                     |          |  |  |  |
| 40               | QPSK       | 1       | 53        | 19.16                 | 19.14                    | 18.96                  | 20.5                | 0.0      |  |  |  |
| 40               | QPSK       | 1       | 104       | 19.18                 | 19.19                    | 18.95                  | 20.5                | 0.0      |  |  |  |
| 40               | QPSK       | 50      | 0         | 19.15                 | 19.17                    | 18.75                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 28        | 19.16                 | 19.19                    | 18.55                  |                     |          |  |  |  |
| 40               | QPSK       | 50      | 56        | 19.11                 | 19.18                    | 18.93                  | 20.5                | 0.0      |  |  |  |
| 40               | QPSK       | 100     | 0         | 19.16                 | 19.17                    | 18.91                  |                     |          |  |  |  |
| 40               | 16QAM      | 1       | 1         | 19.02                 | 19.11                    | 18.90                  | 20.5                | 0.0      |  |  |  |
| 40               | 64QAM      | 1       | 1         | 19.13                 | 19.16                    | 18.80                  | 20.5                | 0.0      |  |  |  |
| 40               | 256QAM     | 1       | 1         | 18.16                 | 18.28                    | 18.17                  | 19.5                | 1.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 30               | QPSK       | 1       | 1         | 3562.02               | 3624.99                  | 3694.98                | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20               | QPSK       | 1       | 1         | 19.12                 | 19.11                    | 18.90                  | 20.5                | 0.0      |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10               | QPSK       | 1       | 1         | 19.11                 | 19.13                    | 18.93                  | 20.5                | 0.0      |  |  |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 17.68                    |                        | 18.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 17.70                    |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 17.70                    |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 17.68                    |                        | 18.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 17.68                    |                        | 18.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 17.60                    |                        | 18.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 17.72                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 17.74                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 17.71                    |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 17.67                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 17.70                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 17.72                    |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 17.68                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 17.68                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 17.60                    |                        | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 17.68                    |                        | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 17.61                    |                        | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 632654                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 17.66                 | 17.72                    | 17.69                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 17.65                 | 17.72                    | 17.67                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 17.68                 | 17.67                    | 17.72                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 17.65                 | 17.67                    | 17.68                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 17.68                 | 17.70                    | 17.69                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 17.72                 | 17.65                    | 17.68                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 17.71                 | 17.63                    | 17.67                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 17.63                 | 17.72                    | 17.72                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 17.66                 | 17.71                    | 17.71                  | 18.5                | 0.0      |  |



| Part27Q_n77 HPUE Ant 4 |                 |          |           |                      |                       |                     |                     |                     |                     |
|------------------------|-----------------|----------|-----------|----------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| BW (MHz)               | Modulation      | RB Size  | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Freq. / Freq. | Time-up limit (dBm) | MPR (dB)            |                     |
| 100                    | Channel         |          |           |                      |                       | 635332              |                     |                     |                     |
|                        | Frequency (MHz) |          |           |                      |                       | 3499.98             |                     |                     |                     |
|                        | 100             | P22 BPSK | 1         | 1                    | 17.68                 | 17.68               |                     |                     |                     |
|                        | Channel         |          |           |                      |                       | 635332              |                     |                     |                     |
|                        | Frequency (MHz) |          |           |                      |                       | 3499.98             |                     |                     |                     |
|                        | 100             | P22 BPSK | 1         | 137                  | 17.70                 | 17.70               | 18.5                | 0.0                 |                     |
|                        | Channel         |          |           |                      |                       | 635332              |                     |                     |                     |
|                        | Frequency (MHz) |          |           |                      |                       | 3499.98             |                     |                     |                     |
|                        | 100             | P22 BPSK | 135       | 0                    | 17.68                 | 17.68               |                     |                     |                     |
|                        | Channel         |          |           |                      |                       | 635332              |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | P22 BPSK        | 135      | 136       | 17.68                | 17.68                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | P22 BPSK        | 270      | 0         | 17.72                | 17.72                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 1        | 1         | 17.74                | 17.74                 |                     |                     |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 1        | 137       | 17.67                | 17.67                 |                     |                     |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 1        | 271       | 17.67                | 17.67                 |                     |                     |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 135      | 0         | 17.70                | 17.70                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 135      | 136       | 17.68                | 17.68                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | QPSK            | 270      | 0         | 17.68                | 17.68                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | 16QAM           | 1        | 1         | 17.60                | 17.60                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | 64QAM           | 1        | 1         | 17.68                | 17.68                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635332                |                     |                     |                     |                     |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               |                     |                     |                     |                     |
| 100                    | 256QAM          | 1        | 1         | 17.61                | 17.61                 | 18.5                | 0.0                 |                     |                     |
| Channel                |                 |          |           |                      | 635300                | 635332              | 635996              | Time-up limit (dBm) |                     |
| Frequency (MHz)        |                 |          |           |                      | 3498.98               | 3499.98             | 3505.98             |                     |                     |
| 90                     | Channel         |          |           |                      |                       | 635300              | 635332              | 634000              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.98             | 3499.98             | 3505.98             |                     |
|                        | 90              | QPSK     | 1         | 1                    | 17.68                 | 17.67               | 17.67               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 635300              | 635332              | 634000              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.98             | 3499.98             | 3505.98             |                     |
|                        | 90              | QPSK     | 1         | 1                    | 17.66                 | 17.72               | 17.69               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 632334              | 635332              | 634332              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.01             | 3499.98             | 3514.98             |                     |
|                        | 70              | QPSK     | 1         | 1                    | 17.65                 | 17.72               | 17.67               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 635300              | 635332              | 635996              | Time-up limit (dBm) |
| Frequency (MHz)        |                 |          |           |                      | 3498.98               | 3499.98             | 3524.98             |                     |                     |
| 60                     | Channel         |          |           |                      |                       | 635300              | 635332              | 635996              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.98             | 3499.98             | 3524.98             |                     |
|                        | 60              | QPSK     | 1         | 1                    | 17.68                 | 17.67               | 17.72               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 635300              | 635332              | 635996              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.98             | 3499.98             | 3524.98             |                     |
|                        | 60              | QPSK     | 1         | 1                    | 17.68                 | 17.67               | 17.72               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 635334              | 635332              | 635332              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3499.98             | 3499.98             | 3524.98             |                     |
|                        | 50              | QPSK     | 1         | 1                    | 17.65                 | 17.67               | 17.68               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 631138              | 635332              | 635332              | Time-up limit (dBm) |
| Frequency (MHz)        |                 |          |           |                      | 3499.98               | 3499.98             | 3524.98             |                     |                     |
| 40                     | Channel         |          |           |                      |                       | 631138              | 635332              | 635332              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3499.98             | 3499.98             | 3524.98             |                     |
|                        | 40              | QPSK     | 1         | 1                    | 17.68                 | 17.70               | 17.69               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 631000              | 635332              | 635900              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3498.98             | 3499.98             | 3534.98             |                     |
|                        | 30              | QPSK     | 1         | 1                    | 17.72                 | 17.62               | 17.69               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 630968              | 635332              | 636000              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3490.02             | 3499.98             | 3540.98             |                     |
|                        | 20              | QPSK     | 1         | 1                    | 17.71                 | 17.63               | 17.67               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 635050              | 635332              | 637100              | Time-up limit (dBm) |
| Frequency (MHz)        |                 |          |           |                      | 3457.5                | 3499.98             | 3542.49             |                     |                     |
| 15                     | Channel         |          |           |                      |                       | 630334              | 635332              | 636502              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3456.01             | 3499.98             | 3544.98             |                     |
|                        | 15              | QPSK     | 1         | 1                    | 17.63                 | 17.72               | 17.72               | 18.5                | 0.0                 |
|                        | Channel         |          |           |                      |                       | 630334              | 635332              | 636502              | Time-up limit (dBm) |
|                        | Frequency (MHz) |          |           |                      |                       | 3456.01             | 3499.98             | 3544.98             |                     |
|                        | 10              | QPSK     | 1         | 1                    | 17.66                 | 17.71               | 17.71               | 18.5                | 0.0                 |

| Part270_n77 HPUE_Ant 4 |            |                 |           |                              |                              |                              |                  |          |  |
|------------------------|------------|-----------------|-----------|------------------------------|------------------------------|------------------------------|------------------|----------|--|
| BW [MHz]               | Modulation | RB Size         | RB Offset | Power Level<br>Ch. 1 / Freq. | Power Level<br>Ch. 2 / Freq. | Power Level<br>Ch. 3 / Freq. | Turn-up time (s) | MPR (dB) |  |
|                        | Channel    | Frequency (MHz) |           | 660000                       | 660000                       | 662000                       |                  |          |  |
| 100                    | PQ2 BPFSK  | 1               | 1         | 17.73                        | 17.80                        | 17.70                        |                  |          |  |
| 100                    | PQ2 BPFSK  | 1               | 137       | 17.78                        | 17.82                        | 17.77                        | 18.5             | 0.0      |  |
| 100                    | PQ2 BPFSK  | 135             | 0         | 17.78                        | 17.82                        | 17.78                        |                  |          |  |
| 100                    | PQ2 BPFSK  | 135             | 0         | 17.81                        | 17.85                        | 17.64                        | 18.5             | 0.0      |  |
| 100                    | PQ2 BPFSK  | 135             | 69        | 17.78                        | 17.85                        | 17.78                        | 18.5             | 0.0      |  |
| 100                    | PQ2 BPFSK  | 135             | 135       | 17.88                        | 17.81                        | 17.68                        | 18.5             | 0.0      |  |
| 100                    | PQ2 BPFSK  | 210             | 0         | 17.66                        | 17.68                        | 17.76                        |                  |          |  |
| 100                    | QPSK       | 1               | 1         | 17.65                        | 17.67                        | 17.65                        |                  |          |  |
| 100                    | QPSK       | 1               | 137       | 17.76                        | 17.77                        | 17.80                        | 18.5             | 0.0      |  |
| 100                    | QPSK       | 1               | 271       | 17.83                        | 17.76                        | 17.78                        |                  |          |  |
| 100                    | QPSK       | 135             | 0         | 17.77                        | 17.76                        | 17.79                        |                  |          |  |
| 100                    | QPSK       | 135             | 69        | 17.81                        | 17.85                        | 17.65                        | 18.5             | 0.0      |  |
| 100                    | QPSK       | 135             | 136       | 17.79                        | 17.80                        | 17.66                        | 18.5             | 0.0      |  |
| 100                    | QPSK       | 270             | 0         | 17.80                        | 17.84                        | 17.67                        | 18.5             | 0.0      |  |
| 100                    | 16QAM      | 1               | 1         | 17.76                        | 17.68                        | 17.74                        | 18.5             | 0.0      |  |
| 100                    | 64QAM      | 1               | 1         | 17.77                        | 17.77                        | 17.76                        | 18.5             | 0.0      |  |
| 100                    | 256QAM     | 1               | 1         | 17.81                        | 17.76                        | 17.76                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664968                       | 665000                       | 665232                       | Turn-up time (s) | MPR (dB) |  |
| 50                     | QPSK       | 1               | 1         | 17.73                        | 17.84                        | 17.73                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664934                       | 665000                       | 665066                       | Turn-up time (s) | MPR (dB) |  |
| 50                     | QPSK       | 1               | 1         | 17.80                        | 17.81                        | 17.80                        | 18.5             | 0.0      |  |
| 80                     | QPSK       | 1               | 1         | 17.62                        | 17.77                        | 17.77                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664900                       | 665000                       | 665000                       | Turn-up time (s) | MPR (dB) |  |
| 70                     | QPSK       | 1               | 1         | 17.36                        | 17.40                        | 17.36                        |                  |          |  |
|                        | Channel    | Frequency (MHz) |           | 664969                       | 665000                       | 665133                       | Turn-up time (s) | MPR (dB) |  |
| 60                     | QPSK       | 1               | 1         | 17.62                        | 17.78                        | 17.74                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664924                       | 665000                       | 665066                       | Turn-up time (s) | MPR (dB) |  |
| 50                     | QPSK       | 1               | 1         | 17.65                        | 17.80                        | 17.65                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664800                       | 665000                       | 664600                       | Turn-up time (s) | MPR (dB) |  |
| 40                     | QPSK       | 1               | 1         | 17.22                        | 17.30                        | 17.22                        |                  |          |  |
|                        | Channel    | Frequency (MHz) |           | 17.77                        | 17.78                        | 17.78                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664768                       | 665000                       | 664532                       | Turn-up time (s) | MPR (dB) |  |
| 30                     | QPSK       | 1               | 1         | 17.13                        | 17.81                        | 17.74                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664734                       | 665000                       | 664666                       | Turn-up time (s) | MPR (dB) |  |
| 20                     | QPSK       | 1               | 1         | 17.76                        | 17.82                        | 17.73                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664732                       | 665000                       | 664532                       | Turn-up time (s) | MPR (dB) |  |
| 15                     | QPSK       | 1               | 1         | 17.80                        | 17.81                        | 17.71                        | 18.5             | 0.0      |  |
|                        | Channel    | Frequency (MHz) |           | 664700                       | 665000                       | 665000                       | Turn-up time (s) | MPR (dB) |  |
| 10                     | QPSK       | 1               | 1         | 17.78                        | 17.84                        | 17.80                        | 18.5             | 0.0      |  |

| Part27Q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.93                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.96                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.97                 |                          |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.94                 |                          |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.92                 |                          |                        | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.96                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         | 21.04                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 20.96                 |                          |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 20.88                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 20.92                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 20.96                 |                          |                        | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 20.94                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 20.94                 |                          |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 20.46                 |                          |                        | 21.5                | 0.5      |  |
| 100               | 256QAM     | 1       | 1         | 18.42                 |                          |                        | 19.5                | 2.5      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3496.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 20.96                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632534                | 633332                   | 634132                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3495.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 20.93                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3490                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 20.90                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 20.98                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 20.97                 |                          |                        | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 20.94                 |                          |                        | 22.0                | 0.0      |  |

| Part27O_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 650000                | 650000                   | 650000                 |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 20.97                 | 21.00                    | 21.01                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 137       | 20.98                 | 21.01                    | 20.96                  |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 271       | 20.90                 | 21.00                    | 20.96                  |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 20.93                 | 21.03                    | 20.95                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 20.95                 | 21.03                    | 20.99                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 20.95                 | 21.00                    | 20.95                  | 22.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 20.92                 | 21.02                    | 21.00                  |                     |          |  |
| 100               | QPSK       | 1       | 1         | 21.00                 | 21.06                    | 21.03                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 20.94                 | 21.02                    | 21.00                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 20.94                 | 20.97                    | 20.99                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 20.94                 | 20.98                    | 21.00                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 20.95                 | 21.05                    | 21.02                  | 22.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 20.90                 | 20.96                    | 20.98                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 20.90                 | 20.97                    | 20.95                  |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 20.98                 | 20.96                    | 20.94                  | 22.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 20.44                 | 20.96                    | 20.40                  | 21.5                | 0.5      |  |
| 100               | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 2.5      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3742.02               | 3740                     | 3741.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 20.92                 | 21.04                    | 20.99                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3740.01               | 3740                     | 3740.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 21.01                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3735                  | 3740                     | 3745                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 20.98                 | 21.03                    | 20.94                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3730.02               | 3740                     | 3741.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 20.98                 | 21.00                    | 20.95                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3725.01               | 3740                     | 3741.98                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3720                  | 3740                     | 3740                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 20.95                 | 21.02                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 647668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3715.02               | 3740                     | 3741.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 20.91                 | 21.02                    | 20.94                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 647334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3710.01               | 3740                     | 3740.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 20.92                 | 21.02                    | 20.93                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 647000                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3707.52               | 3740                     | 3741.98                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 20.93                 | 20.99                    | 21.00                  | 22.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 646700                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3705                  | 3740                     | 3741.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 20.93                 | 20.97                    | 20.96                  | 22.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 21.47                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 21.44                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 21.46                 |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 21.46                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 21.44                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 21.39                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 21.48                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 21.49                 |                          |                        | 22.5                |          |  |
| 100                    | QPSK       | 1       | 137       | 21.44                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 21.46                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 21.46                 |                          |                        | 22.5                |          |  |
| 100                    | QPSK       | 135     | 69        | 21.47                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 21.39                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         | 21.48                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 21.37                 |                          |                        | 22.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 20.51                 |                          |                        | 21.5                | 1.0      |  |
| 100                    | 256QAM     | 1       | 1         | 18.42                 |                          |                        | 19.5                | 3.0      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3486                  | 3499.98                  | 3504.98                | 22.5                | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 21.44                 | 21.41                    | 21.41                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3486                  | 3499.98                  | 3504.98                | 22.5                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 21.45                 | 21.43                    | 21.43                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 632534                | 633332                   | 634132                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 22.5                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 21.42                 | 21.43                    | 21.40                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.99                | 22.5                | 0.0      |  |
| 60                     | QPSK       | 1       | 1         | 21.48                 | 21.40                    | 21.47                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.00               | 3499.98                  | 3525                   | 22.5                | 0.0      |  |
| 50                     | QPSK       | 1       | 1         | 21.46                 | 21.44                    | 21.43                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 22.5                | 0.0      |  |
| 40                     | QPSK       | 1       | 1         | 21.41                 | 21.42                    | 21.43                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460                  | 3499.98                  | 3524.99                | 22.5                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 21.43                 | 21.46                    | 21.40                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | 22.5                | 0.0      |  |
| 20                     | QPSK       | 1       | 1         | 21.38                 | 21.43                    | 21.40                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 630330                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3450.75               | 3499.98                  | 3542.49                | 22.5                | 0.0      |  |
| 15                     | QPSK       | 1       | 1         | 21.44                 | 21.46                    | 21.43                  | 22.5                | 0.0      |  |
| Channel                |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3440.01               | 3499.98                  | 3544.98                | 22.5                | 0.0      |  |
| 10                     | QPSK       | 1       | 1         | 21.42                 | 21.40                    | 21.40                  | 22.5                | 0.0      |  |



| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 21.48                 | 21.45                    | 21.43                  | 22.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 21.49                 | 21.55                    | 21.46                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 21.43                 | 21.49                    | 21.46                  |                     |          |  |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 21.47                 | 21.56                    | 21.37                  | 22.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 21.43                 | 21.48                    | 21.44                  | 22.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 21.40                 | 21.51                    | 21.43                  | 22.5                | 0.0      |  |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 21.46                 | 21.49                    | 21.54                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 21.30                 | 21.80                    | 21.35                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 21.39                 | 21.53                    | 21.50                  | 22.5                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 21.40                 | 21.51                    | 21.45                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 21.44                 | 21.53                    | 21.52                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 69        | 21.45                 | 21.54                    | 21.53                  | 22.5                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 21.42                 | 21.48                    | 21.47                  |                     |          |  |  |
| 100                    | QPSK       | 270     | 0         | 21.44                 | 21.52                    | 21.49                  | 22.5                | 0.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 21.44                 | 21.41                    | 21.39                  | 22.5                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 20.44                 | 20.56                    | 20.49                  | 21.5                | 1.0      |  |  |
| 100                    | 256QAM     | 1       | 1         | 18.35                 | 18.44                    | 18.33                  | 19.5                | 3.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648968                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                     | QPSK       | 1       | 1         | 3745.02               | 3840                     | 3924.98                | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                     | QPSK       | 1       | 1         | 3745.01               | 3840                     | 3929.99                | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                     | QPSK       | 1       | 1         | 21.42                 | 21.53                    | 21.53                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                     | QPSK       | 1       | 1         | 21.39                 | 21.49                    | 21.47                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                     | QPSK       | 1       | 1         | 21.44                 | 21.49                    | 21.47                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                     | QPSK       | 1       | 1         | 21.43                 | 21.54                    | 21.53                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                     | QPSK       | 1       | 1         | 21.41                 | 21.51                    | 21.48                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                     | QPSK       | 1       | 1         | 21.46                 | 21.52                    | 21.52                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647168                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                     | QPSK       | 1       | 1         | 21.47                 | 21.53                    | 21.47                  | 22.5                | 0.0      |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 647000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                     | QPSK       | 1       | 1         | 21.45                 | 21.49                    | 21.44                  | 22.5                | 0.0      |  |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                       |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               | 353332                | 356666                 |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 15.10                 | 15.10                 | 15.10                  | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 15.06                 | 15.06                 | 15.06                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 15.12                 | 15.12                 | 15.12                  |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 15.05                 | 15.05                 | 15.05                  | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 15.05                 | 15.05                 | 15.05                  | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 15.08                 | 15.08                 | 15.08                  | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 15.08                 | 15.08                 | 15.08                  |                     |          |  |  |
| 100                | QPSK       | 1       | 1         | 15.15                 | 15.15                 | 15.15                  |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 15.07                 | 15.07                 | 15.07                  | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 15.11                 | 15.11                 | 15.11                  |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 15.11                 | 15.11                 | 15.11                  |                     |          |  |  |
| 100                | QPSK       | 135     | 69        | 15.14                 | 15.14                 | 15.14                  | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 138       | 15.13                 | 15.13                 | 15.13                  |                     |          |  |  |
| 100                | QPSK       | 270     | 0         | 15.12                 | 15.12                 | 15.12                  | 16.0                | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         | 15.10                 | 15.10                 | 15.10                  | 16.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 15.08                 | 15.08                 | 15.08                  | 16.0                | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         | 15.08                 | 15.08                 | 15.08                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 633000                | 633332                | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 90                 | QPSK       | 1       | 1         | 15.05                 | 15.06                 | 15.05                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                 | QPSK       | 1       | 1         | 15.05                 | 15.06                 | 15.05                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632334                | 633332                | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                 | QPSK       | 1       | 1         | 15.11                 | 15.11                 | 15.12                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                 | QPSK       | 1       | 1         | 15.11                 | 15.09                 | 15.11                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631668                | 633332                | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 15.08                 | 15.04                 | 15.08                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                 | QPSK       | 1       | 1         | 15.12                 | 15.08                 | 15.04                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                 | QPSK       | 1       | 1         | 15.10                 | 15.04                 | 15.08                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630668                | 633332                | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                 | QPSK       | 1       | 1         | 15.09                 | 15.04                 | 15.07                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630334                | 633332                | 636334                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                 | QPSK       | 1       | 1         | 15.05                 | 15.09                 | 15.11                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630000                | 633332                | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                 | QPSK       | 1       | 1         | 15.05                 | 15.11                 | 15.04                  | 16.0                | 0.0      |  |  |

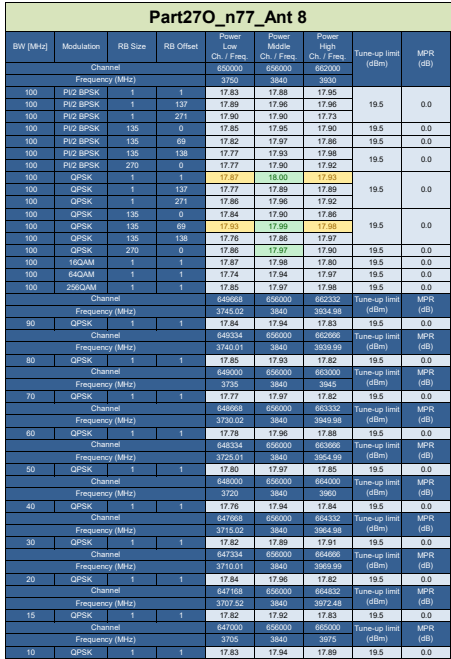
| Part270_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 14.81                 | 14.79                    | 14.70                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 14.77                 | 14.77                    | 14.74                  |                     |          |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 14.80                 | 14.81                    | 14.71                  |                     |          |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 14.79                 | 14.73                    | 14.71                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 14.76                 | 14.81                    | 14.80                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 14.74                 | 14.80                    | 14.76                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 14.72                 | 14.73                    | 14.73                  |                     |          |                     |          |  |  |
| 100                | QPSK       | 1       | 1         | 14.82                 | 14.80                    | 14.79                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 14.78                 | 14.78                    | 14.77                  |                     |          |                     |          |  |  |
| 100                | QPSK       | 1       | 271       | 14.74                 | 14.75                    | 14.75                  |                     |          |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 14.76                 | 14.76                    | 14.77                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | QPSK       | 135     | 69        | 14.80                 | 14.77                    | 14.75                  |                     |          |                     |          |  |  |
| 100                | QPSK       | 135     | 138       | 14.78                 | 14.78                    | 14.70                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | QPSK       | 270     | 0         | 14.79                 | 14.78                    | 14.74                  |                     |          |                     |          |  |  |
| 100                | 16QAM      | 1       | 1         | 14.78                 | 14.81                    | 14.79                  | 16.0                | 0.0      |                     |          |  |  |
| 100                | 64QAM      | 1       | 1         | 14.74                 | 14.74                    | 14.68                  |                     |          |                     |          |  |  |
| 100                | 256QAM     | 1       | 1         | 14.74                 | 14.77                    | 14.70                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 44977                 | 45000                    | 45232                  | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| 90                 | QPSK       | 1       | 1         | 14.69                 | 14.77                    | 14.73                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 46334                 | 46360                    | 46566                  | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| 90                 | QPSK       | 1       | 1         | 14.69                 | 14.70                    | 14.68                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 4735                  | 3840                     | 3945                   | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| 70                 | QPSK       | 1       | 1         | 14.74                 | 14.76                    | 14.68                  | 16.0                | 0.0      |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 46900                 | 46900                    | 46933                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                 | QPSK       | 1       | 1         | 14.73                 | 14.75                    | 14.69                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 46453                 | 46900                    | 46933                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3722.51               | 3840                     | 3954.99                |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 14.74                 | 14.75                    | 14.77                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 46800                 | 46900                    | 46400                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3722                  | 3840                     | 3960                   |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                 | QPSK       | 1       | 1         | 14.74                 | 14.77                    | 14.76                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 46769                 | 46900                    | 46432                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3840                     | 3948.98                |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                 | QPSK       | 1       | 1         | 14.73                 | 14.73                    | 14.73                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 47334                 | 46900                    | 46466                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                 | QPSK       | 1       | 1         | 14.72                 | 14.70                    | 14.70                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 47346                 | 46900                    | 46432                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                 | QPSK       | 1       | 1         | 14.75                 | 14.69                    | 14.75                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           | 46700                 | 46900                    | 46500                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3840                     | 3972                   |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                 | QPSK       | 1       | 1         | 14.72                 | 14.76                    | 14.73                  | 16.0                | 0.0      |                     |          |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |



| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 15.10                    |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 15.06                    |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 15.12                    |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 15.05                    |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 15.05                    |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 15.08                    |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 15.08                    |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 1         |                       | 15.15                    |                        |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       |                       | 15.07                    |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 271       |                       | 15.11                    |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 0         |                       | 15.11                    |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 69        |                       | 15.14                    |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       |                       | 15.13                    |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 270     | 0         |                       | 15.12                    |                        |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         |                       | 15.10                    |                        | 16.0                | 0.0      |  |  |
| 100                     | 16QAM      | 1       | 1         |                       | 15.09                    |                        |                     |          |  |  |
| 100                     | 256QAM     | 1       | 1         |                       | 15.08                    |                        | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dB)                |          |  |  |
| 90                      | QPSK       | 1       | 1         |                       | 15.05                    | 15.06                  | 15.05               | 15.0     |  |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |  |  |
| 80                      | QPSK       | 1       | 1         |                       | 15.13                    | 15.11                  | 15.11               | 16.0     |  |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |  |  |
| 70                      | QPSK       | 1       | 1         |                       | 15.11                    | 15.11                  | 15.12               | 16.0     |  |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3518.98                | (dB)                |          |  |  |
| 60                      | QPSK       | 1       | 1         |                       | 15.11                    | 15.09                  | 15.11               | 16.0     |  |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |  |  |
| 50                      | QPSK       | 1       | 1         |                       | 15.08                    | 15.04                  | 15.08               | 15.0     |  |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |  |  |
| 40                      | QPSK       | 1       | 1         |                       | 15.12                    | 15.08                  | 15.04               | 16.0     |  |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dB)                |          |  |  |
| 30                      | QPSK       | 1       | 1         |                       | 15.10                    | 15.04                  | 15.08               | 16.0     |  |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |  |  |
| 20                      | QPSK       | 1       | 1         |                       | 15.09                    | 15.04                  | 15.07               | 15.0     |  |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |  |  |
| 15                      | QPSK       | 1       | 1         |                       | 15.05                    | 15.09                  | 15.11               | 16.0     |  |  |
| Channel                 |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |  |  |
| 10                      | QPSK       | 1       | 1         |                       | 15.05                    | 15.11                  | 15.04               | 16.0     |  |  |

| Part27O_n77 HPUE_Ant 10 |            |         |           |                       |                        |                        |                     |          |  |          |
|-------------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |          |
| Channel                 |            |         |           | 650000                |                        |                        |                     |          |  |          |
| Frequency (MHz)         |            |         |           | 3750                  |                        |                        |                     |          |  |          |
| 100                     | Pl2 BPSK   | 1       | 1         | 14.81                 | 14.79                  | 14.70                  | 16.0                |          |  | 0.0      |
| 100                     | Pl2 BPSK   | 1       | 137       | 14.77                 | 14.77                  | 14.74                  |                     |          |  |          |
| 100                     | Pl2 BPSK   | 1       | 271       | 14.80                 | 14.81                  | 14.71                  | 16.0                |          |  | 0.0      |
| 100                     | Pl2 BPSK   | 135     | 0         | 14.79                 | 14.73                  | 14.71                  |                     |          |  |          |
| 100                     | Pl2 BPSK   | 135     | 69        | 14.76                 | 14.81                  | 14.80                  | 16.0                |          |  | 0.0      |
| 100                     | Pl2 BPSK   | 135     | 138       | 14.74                 | 14.80                  | 14.76                  |                     |          |  |          |
| 100                     | Pl2 BPSK   | 270     | 0         | 14.72                 | 14.73                  | 14.73                  | 16.0                |          |  | 0.0      |
| 100                     | QPSK       | 1       | 1         | 14.82                 | 14.80                  | 14.75                  |                     |          |  |          |
| 100                     | QPSK       | 1       | 137       | 14.78                 | 14.78                  | 14.77                  | 16.0                |          |  | 0.0      |
| 100                     | QPSK       | 1       | 271       | 14.74                 | 14.75                  | 14.75                  |                     |          |  |          |
| 100                     | QPSK       | 135     | 0         | 14.76                 | 14.77                  | 14.72                  | 16.0                |          |  | 0.0      |
| 100                     | QPSK       | 135     | 69        | 14.80                 | 14.75                  | 14.75                  |                     |          |  |          |
| 100                     | QPSK       | 135     | 138       | 14.78                 | 14.78                  | 14.70                  | 16.0                |          |  | 0.0      |
| 100                     | QPSK       | 270     | 0         | 14.79                 | 14.78                  | 14.74                  |                     |          |  |          |
| 100                     | 16QAM      | 1       | 1         | 14.76                 | 14.81                  | 14.79                  | 16.0                |          |  | 0.0      |
| 100                     | 16QAM      | 1       | 1         | 14.74                 | 14.74                  | 14.66                  |                     |          |  |          |
| 100                     | 256QAM     | 1       | 1         | 14.74                 | 14.77                  | 14.70                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 649668                | 650000                 | 652332                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3742.02               | 3740                   | 3741.98                | (dB)                |          |  |          |
| 90                      | QPSK       | 1       | 1         | 14.77                 | 14.77                  | 14.73                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 649334                | 650000                 | 650666                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3740.01               | 3740                   | 3750.98                | (dB)                |          |  |          |
| 80                      | QPSK       | 1       | 1         | 14.80                 | 14.82                  | 14.71                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 649000                | 650000                 | 651000                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                   | 3945                   | (dB)                |          |  |          |
| 70                      | QPSK       | 1       | 1         | 14.74                 | 14.76                  | 14.68                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 648668                | 650000                 | 651332                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                   | 3948.98                | (dB)                |          |  |          |
| 60                      | QPSK       | 1       | 1         | 14.73                 | 14.75                  | 14.69                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 648334                | 650000                 | 651666                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                   | 3954.98                | (dB)                |          |  |          |
| 50                      | QPSK       | 1       | 1         | 14.74                 | 14.75                  | 14.77                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 648000                | 650000                 | 652000                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                   | 3960                   | (dB)                |          |  |          |
| 40                      | QPSK       | 1       | 1         | 14.74                 | 14.77                  | 14.76                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 647668                | 650000                 | 652332                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                   | 3954.98                | (dB)                |          |  |          |
| 30                      | QPSK       | 1       | 1         | 14.78                 | 14.73                  | 14.73                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 647334                | 650000                 | 652666                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                   | 3959.98                | (dB)                |          |  |          |
| 20                      | QPSK       | 1       | 1         | 14.72                 | 14.70                  | 14.70                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 647000                | 650000                 | 653000                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                   | 3972.48                | (dB)                |          |  |          |
| 15                      | QPSK       | 1       | 1         | 14.75                 | 14.69                  | 14.75                  | 16.0                |          |  | MPR (dB) |
| Channel                 |            |         |           | 646668                | 650000                 | 653332                 | Tune-up limit (dBm) |          |  |          |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                   | 3975                   | (dB)                |          |  |          |
| 10                      | QPSK       | 1       | 1         | 14.72                 | 14.76                  | 14.73                  | 16.0                |          |  |          |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 18.40                    |                        | 19.5                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 18.40                    |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 18.31                    |                        | 19.5                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 18.35                    |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 18.35                    |                        | 19.5                | 0.0      |  |  |
| 100               | Pl2 BPSK   | 135     | 138       |                       | 18.31                    |                        |                     |          |  |  |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 18.36                    |                        | 19.5                | 0.0      |  |  |
| 100               | QPSK       | 1       | 1         |                       | 18.41                    |                        | 19.5                | 0.0      |  |  |
| 100               | QPSK       | 1       | 137       |                       | 18.38                    |                        |                     |          |  |  |
| 100               | QPSK       | 1       | 271       |                       | 18.41                    |                        | 19.5                | 0.0      |  |  |
| 100               | QPSK       | 135     | 0         |                       | 18.31                    |                        |                     |          |  |  |
| 100               | QPSK       | 135     | 69        |                       | 18.35                    |                        | 19.5                | 0.0      |  |  |
| 100               | QPSK       | 135     | 138       |                       | 18.31                    |                        |                     |          |  |  |
| 100               | QPSK       | 270     | 0         |                       | 18.39                    |                        | 19.5                | 0.0      |  |  |
| 100               | 16QAM      | 1       | 1         |                       | 18.33                    |                        | 19.5                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         |                       | 18.39                    |                        |                     |          |  |  |
| 100               | 256QAM     | 1       | 1         |                       | 18.39                    |                        | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 633000                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 90                | QPSK       | 1       | 1         | 18.37                 | 18.38                    | 18.39                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 636668                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 80                | QPSK       | 1       | 1         | 18.33                 | 18.35                    | 18.37                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 632544                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |
| 70                | QPSK       | 1       | 1         | 18.30                 | 18.31                    | 18.30                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 630000                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 60                | QPSK       | 1       | 1         | 18.33                 | 18.34                    | 18.35                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 3480                  |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 50                | QPSK       | 1       | 1         | 18.33                 | 18.33                    | 18.35                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 631354                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 40                | QPSK       | 1       | 1         | 18.34                 | 18.32                    | 18.34                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 631000                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |
| 30                | QPSK       | 1       | 1         | 18.39                 | 18.39                    | 18.38                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 636668                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |
| 20                | QPSK       | 1       | 1         | 18.33                 | 18.37                    | 18.38                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 3490.00               |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3497.5                |                          |                        |                     |          |  |  |
| 15                | QPSK       | 1       | 1         | 18.30                 | 18.33                    | 18.34                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |
| 10                | QPSK       | 1       | 1         | 18.33                 | 18.32                    | 18.31                  | 19.5                | 0.0      |  |  |
| Channel           |            |         |           | 3485.01               |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3495.01               |                          |                        |                     |          |  |  |



| Part27Q_n77 HPUE Ant 8 |            |         |           |                      |                       |                   |                    |          |
|------------------------|------------|---------|-----------|----------------------|-----------------------|-------------------|--------------------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Freq. Freq. | Turn-up limit (dB) | MPR (dB) |
| Channel                |            |         |           | 653302               | 653332                | 653362            |                    |          |
| Frequency (MHz)        |            |         |           | 346938               | 346968                | 346998            |                    |          |
| 100                    | P2/ BPSK   | 1       | 1         | 18.30                | 18.40                 | 18.50             |                    |          |
| Channel                |            |         |           | 18.30                | 18.40                 | 18.50             |                    |          |
| 100                    | P2/ BPSK   | 1       | 137       | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| 100                    | P2/ BPSK   | 135     | 1         | 18.30                | 18.35                 | 18.40             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.35                 | 18.40             | 19.5               | 0.0      |
| 100                    | P2/ BPSK   | 135     | 69        | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| 100                    | QPSK       | 1       | 1         | 18.30                | 18.38                 | 18.46             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.38                 | 18.46             | 19.5               | 0.0      |
| 100                    | QPSK       | 1       | 271       | 18.30                | 18.40                 | 18.50             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.40                 | 18.50             | 19.5               | 0.0      |
| 100                    | QPSK       | 135     | 0         | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.31                 | 18.32             | 19.5               | 0.0      |
| 100                    | QPSK       | 135     | 69        | 18.30                | 18.35                 | 18.40             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.35                 | 18.40             | 19.5               | 0.0      |
| 100                    | QPSK       | 135     | 136       | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| 100                    | QPSK       | 270     | 0         | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| 100                    | 16QAM      | 1       | 1         | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.33                 | 18.36             | 19.5               | 0.0      |
| 100                    | 64QAM      | 1       | 1         | 18.30                | 18.39                 | 18.49             | 19.5               | 0.0      |
| Channel                |            |         |           | 18.30                | 18.39                 | 18.49             | 19.5               | 0.0      |
| 100                    | 256QAM     | 1       | 1         | 18.30                | 18.39                 | 18.49             | 19.5               | 0.0      |
| Channel                |            |         |           | 653000               | 653302                | 653604            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3469                 | 346938                | 346976            | 19.5               | 0.0      |
| 90                     | QPSK       | 1       | 1         | 18.37                | 18.37                 | 18.39             | 19.5               | 0.0      |
| Channel                |            |         |           | 652688               | 653332                | 654000            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3469                 | 346938                | 346976            | 19.5               | 0.0      |
| 80                     | QPSK       | 1       | 1         | 18.33                | 18.35                 | 18.37             | 19.5               | 0.0      |
| Channel                |            |         |           | 652334               | 653332                | 654332            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3486.01              | 3499.98               | 3514.98           | 19.5               | 0.0      |
| 70                     | QPSK       | 1       | 1         | 18.30                | 18.30                 | 18.32             | 19.5               | 0.0      |
| Channel                |            |         |           | 652000               | 653332                | 654600            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3480                 | 3499.98               | 3519.98           | 19.5               | 0.0      |
| 60                     | QPSK       | 1       | 1         | 18.33                | 18.33                 | 18.35             | 19.5               | 0.0      |
| Channel                |            |         |           | 651668               | 653332                | 655000            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3475.02              | 3499.98               | 3525              | 19.5               | 0.0      |
| 50                     | QPSK       | 1       | 1         | 18.35                | 18.33                 | 18.32             | 19.5               | 0.0      |
| Channel                |            |         |           | 651334               | 653332                | 655332            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3470.81              | 3499.98               | 3529.89           | 19.5               | 0.0      |
| 40                     | QPSK       | 1       | 1         | 18.34                | 18.30                 | 18.34             | 19.5               | 0.0      |
| Channel                |            |         |           | 651000               | 653532                | 656966            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3465                 | 346938                | 3514.98           | 19.5               | 0.0      |
| 30                     | QPSK       | 1       | 1         | 18.39                | 18.39                 | 18.39             | 19.5               | 0.0      |
| Channel                |            |         |           | 650668               | 653332                | 656000            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3460.02              | 3499.98               | 3540              | 19.5               | 0.0      |
| 20                     | QPSK       | 1       | 1         | 18.33                | 18.37                 | 18.38             | 19.5               | 0.0      |
| Channel                |            |         |           | 650500               | 653332                | 657000            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3457.5               | 3499.98               | 3542.49           | 19.5               | 0.0      |
| 15                     | QPSK       | 1       | 1         | 18.30                | 18.33                 | 18.34             | 19.5               | 0.0      |
| Channel                |            |         |           | 650334               | 653332                | 657332            | Turn-up limit (dB) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3449.81              | 3469.98               | 3528              | 19.5               | 0.0      |
| 10                     | QPSK       | 1       | 1         | 18.33                | 18.32                 | 18.31             | 19.5               | 0.0      |

| Part270_n77 HPUE_Ant 8 |                 |         |           |                      |                       |                            |                     |          |  |
|------------------------|-----------------|---------|-----------|----------------------|-----------------------|----------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Freq. Med Ch / Freq. | Turn-up time (dBm)  | MPR (dB) |  |
|                        | Channel         |         |           | 650000               | 650000                | 662000                     |                     |          |  |
|                        | Frequency (MHz) |         |           | 3700                 | 3400                  | 3000                       |                     |          |  |
| 100                    | P25 BPSK        | 1       | 1         | 17.83                | 17.88                 | 17.96                      |                     |          |  |
| 100                    | P25 BPSK        | 1       | 137       | 17.89                | 17.96                 | 17.96                      | 19.5                | 0.0      |  |
| 100                    | P25 BPSK        | 1       | 271       | 17.95                | 17.96                 | 17.93                      |                     |          |  |
| 100                    | P25 BPSK        | 135     | 15        | 17.85                | 17.95                 | 17.90                      | 19.5                | 0.0      |  |
| 100                    | P25 BPSK        | 135     | 69        | 17.82                | 17.92                 | 17.86                      |                     |          |  |
| 100                    | P25 BPSK        | 135     | 138       | 17.77                | 17.93                 | 17.88                      | 19.5                | 0.0      |  |
| 100                    | P25 BPSK        | 270     | 0         | 17.77                | 17.78                 | 17.82                      |                     |          |  |
| 100                    | QPSK            | 1       | 1         | 17.90                | 18.00                 | 17.93                      |                     |          |  |
| 100                    | QPSK            | 1       | 137       | 17.77                | 17.89                 | 17.89                      | 19.5                | 0.0      |  |
| 100                    | QPSK            | 1       | 271       | 17.86                | 17.96                 | 17.82                      |                     |          |  |
| 100                    | QPSK            | 135     | 0         | 17.84                | 17.94                 | 17.88                      |                     |          |  |
| 100                    | QPSK            | 135     | 69        | 17.80                | 17.90                 | 17.78                      | 19.5                | 0.0      |  |
| 100                    | QPSK            | 135     | 138       | 17.76                | 17.86                 | 17.87                      |                     |          |  |
| 100                    | QPSK            | 270     | 0         | 17.86                | 17.87                 | 17.90                      | 19.5                | 0.0      |  |
| 100                    | 16QAM           | 1       | 1         | 17.74                | 17.78                 | 17.80                      | 19.5                | 0.0      |  |
| 100                    | 64QAM           | 1       | 1         | 17.74                | 17.94                 | 17.97                      | 19.5                | 0.0      |  |
| 100                    | 256QAM          | 1       | 1         | 17.85                | 17.97                 | 17.98                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 665968               | 666000                | 662332                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3184                 | 3400                  | 3045.88                    |                     |          |  |
| 50                     | QPSK            | 1       | 1         | 17.84                | 17.94                 | 17.83                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 665334               | 666000                | 665668                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Channel         |         |           | 3184                 | 3400                  | 3045.88                    |                     |          |  |
| 50                     | QPSK            | 1       | 1         | 17.85                | 17.93                 | 17.82                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 665000               | 666000                | 665000                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3705                 | 3440                  | 3345                       |                     |          |  |
| 70                     | QPSK            | 1       | 1         | 17.77                | 17.87                 | 17.82                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 664669               | 665000                | 664832                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3730                 | 3620                  | 3449.98                    |                     |          |  |
| 80                     | QPSK            | 1       | 1         | 17.78                | 17.96                 | 17.88                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 664523               | 666000                | 665000                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3725.51              | 3440                  | 3054.99                    |                     |          |  |
| 50                     | QPSK            | 1       | 1         | 17.80                | 17.97                 | 17.85                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 665000               | 666000                | 664500                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3729                 | 3440                  | 3060                       |                     |          |  |
| 40                     | QPSK            | 1       | 1         | 17.76                | 17.84                 | 17.84                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 664968               | 666000                | 664532                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3715.02              | 3440                  | 3048.88                    |                     |          |  |
| 30                     | QPSK            | 1       | 1         | 17.82                | 17.88                 | 17.86                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 667324               | 666000                | 664668                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3710.01              | 3440                  | 3069.99                    |                     |          |  |
| 20                     | QPSK            | 1       | 1         | 17.84                | 17.86                 | 17.82                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 664832               | 666000                | 664532                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3707.52              | 3440                  | 3072.48                    |                     |          |  |
| 15                     | QPSK            | 1       | 1         | 17.82                | 17.82                 | 17.83                      | 19.5                | 0.0      |  |
|                        | Channel         |         |           | 667000               | 666000                | 666000                     | Turn-up limit (dBm) | MPR (dB) |  |
|                        | Frequency (MHz) |         |           | 3705                 | 3440                  | 3072                       |                     |          |  |
| 10                     | QPSK            | 1       | 1         | 17.83                | 17.94                 | 17.89                      | 19.5                | 0.0      |  |



| Part27Q_n78_Ant 4 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 1         | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 17.29                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 271       | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 0         | 17.33                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 135     | 69        | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 1       | 1         | 17.38                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 1       | 137       | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 1       | 271       | 17.34                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 135     | 69        | 17.35                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 138       | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 270     | 0         | 17.29                 |                          |                        |                     |                     |     |
| 100               | 16QAM      | 1       | 1         | 17.28                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | 64QAM      | 1       | 1         | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | 256QAM     | 1       | 1         | 17.29                 |                          |                        |                     | 18.5                | 0.0 |
| Channel           |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 80                | QPSK       | 1       | 1         | 17.31                 | 17.31                    | 17.27                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 632668                |                          | 633000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 80                | QPSK       | 1       | 1         | 17.25                 | 17.26                    | 17.34                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 632334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 70                | QPSK       | 1       | 1         | 17.28                 | 17.32                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 60                | QPSK       | 1       | 1         | 17.29                 | 17.27                    | 17.31                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 631668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 50                | QPSK       | 1       | 1         | 17.25                 | 17.29                    | 17.28                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 631334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 40                | QPSK       | 1       | 1         | 17.30                 | 17.28                    | 17.31                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 30                | QPSK       | 1       | 1         | 17.29                 | 17.28                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 20                | QPSK       | 1       | 1         | 17.30                 | 17.28                    | 17.27                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 630300                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 15                | QPSK       | 1       | 1         | 17.31                 | 17.32                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 10                | QPSK       | 1       | 1         | 17.29                 | 17.32                    | 17.26                  | 18.5                | 0.0                 |     |

| Part27O_n78_Ant 4 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 650000                |                          | 3750                   |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 1         | 17.28                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 17.26                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 271       | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 0         | 17.21                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 135     | 69        | 17.26                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 17.28                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 1       | 1         | 17.30                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 1       | 137       | 17.28                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 1       | 271       | 17.25                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         | 17.22                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 135     | 69        | 17.26                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 138       | 17.24                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | QPSK       | 270     | 0         | 17.22                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | 16QAM      | 1       | 1         | 17.22                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | 64QAM      | 1       | 1         | 17.25                 |                          |                        |                     | 18.5                | 0.0 |
| 100               | 256QAM     | 1       | 1         | 17.20                 |                          |                        |                     | 18.5                | 0.0 |
| Channel           |            |         |           | 649668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 90                | QPSK       | 1       | 1         | 17.29                 | 17.25                    | 17.20                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 649334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 80                | QPSK       | 1       | 1         | 17.27                 | 17.25                    | 17.25                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 649000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 70                | QPSK       | 1       | 1         | 17.19                 | 17.22                    | 17.26                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 648668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 60                | QPSK       | 1       | 1         | 17.26                 | 17.23                    | 17.23                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 648334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 50                | QPSK       | 1       | 1         | 17.25                 | 17.23                    | 17.22                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 648000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 40                | QPSK       | 1       | 1         | 17.25                 | 17.28                    | 17.21                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 647668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 30                | QPSK       | 1       | 1         | 17.23                 | 17.19                    | 17.25                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 647334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 20                | QPSK       | 1       | 1         | 17.20                 | 17.21                    | 17.20                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 647000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 15                | QPSK       | 1       | 1         | 17.26                 | 17.24                    | 17.23                  | 18.5                | 0.0                 |     |
| Channel           |            |         |           | 646668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     | MPR (dB)            |     |
| 10                | QPSK       | 1       | 1         | 17.28                 | 17.27                    | 17.26                  | 18.5                | 0.0                 |     |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |                     |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 100                    | Pl2 BPSK   | 1       | 1         | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | Pl2 BPSK   | 1       | 137       | 17.29                 |                          |                        |                     |                     |     |
| 100                    | Pl2 BPSK   | 1       | 271       | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 0         | 17.33                 |                          |                        |                     |                     |     |
| 100                    | Pl2 BPSK   | 135     | 69        | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 138       | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | Pl2 BPSK   | 270     | 0         | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | QPSK       | 1       | 1         | 17.38                 |                          |                        |                     |                     |     |
| 100                    | QPSK       | 1       | 137       | 17.27                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | QPSK       | 1       | 271       | 17.34                 |                          |                        |                     |                     |     |
| 100                    | QPSK       | 135     | 0         | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | QPSK       | 135     | 69        | 17.35                 |                          |                        |                     |                     |     |
| 100                    | QPSK       | 135     | 138       | 17.30                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | QPSK       | 270     | 0         | 17.29                 |                          |                        |                     |                     |     |
| 100                    | 16QAM      | 1       | 1         | 17.28                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | 64QAM      | 1       | 1         | 17.33                 |                          |                        |                     | 18.5                | 0.0 |
| 100                    | 256QAM     | 1       | 1         | 17.29                 |                          |                        |                     | 18.5                | 0.0 |
| Channel                |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 90                     | QPSK       | 1       | 1         | 17.31                 | 17.31                    | 17.27                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633668                |                          | 634000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 80                     | QPSK       | 1       | 1         | 17.25                 | 17.28                    | 17.34                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633334                |                          | 634332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 70                     | QPSK       | 1       | 1         | 17.32                 | 17.32                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 60                     | QPSK       | 1       | 1         | 17.29                 | 17.29                    | 17.31                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633134                |                          | 633532                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 50                     | QPSK       | 1       | 1         | 17.25                 | 17.28                    | 17.32                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633334                |                          | 633532                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 40                     | QPSK       | 1       | 1         | 17.30                 | 17.28                    | 17.31                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 631000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 30                     | QPSK       | 1       | 1         | 17.29                 | 17.28                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 630668                |                          | 633000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 20                     | QPSK       | 1       | 1         | 17.30                 | 17.28                    | 17.27                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 15                     | QPSK       | 1       | 1         | 17.31                 | 17.32                    | 17.30                  | 18.5                | 0.0                 |     |
| Channel                |            |         |           | 633334                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |
| 10                     | QPSK       | 1       | 1         | 17.29                 | 17.32                    | 17.28                  | 18.5                | 0.0                 |     |



| Part27O_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          | 3750                   | 18.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 17.28                    |                        | 18.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 17.26                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 17.27                    |                        | 18.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 17.21                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 17.26                    |                        | 18.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 17.27                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 17.28                    |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 17.30                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 17.28                    |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 17.25                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 17.22                    |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 17.26                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 17.24                    |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 17.22                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 17.22                    |                        | 18.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 17.25                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 17.20                    |                        | 18.5                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 17.29                 | 17.25                    | 17.20                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 17.27                 | 17.25                    | 17.25                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 17.19                 | 17.22                    | 17.26                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 17.26                 | 17.23                    | 17.23                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 17.28                 | 17.23                    | 17.22                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 17.25                 | 17.28                    | 17.21                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 17.23                 | 17.19                    | 17.25                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 17.20                 | 17.21                    | 17.20                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652662                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 17.26                 | 17.24                    | 17.23                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 17.28                 | 17.27                    | 17.26                  | 18.5                | 0.0      |  |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 137       | 19.71                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       | 19.72                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 0         | 19.69                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        | 19.78                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 19.75                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         | 19.75                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 19.75                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 19.75                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 19.76                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 19.77                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 19.76                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 19.75                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 19.72                 |                          |                        | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 19.25                 |                          |                        | 20.5                | 0.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 19.75                 | 19.72                    | 19.75                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 19.75                 | 19.69                    | 19.78                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 19.69                 | 19.76                    | 19.71                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 19.72                 | 19.68                    | 19.77                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 19.71                 | 19.70                    | 19.76                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 19.72                 | 19.75                    | 19.70                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 19.68                 | 19.73                    | 19.69                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 19.69                 | 19.72                    | 19.72                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630300                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 19.73                 | 19.70                    | 19.72                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630000                | 633332                   | 636700                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 19.71                 | 19.72                    | 19.75                  | 21.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 650000                |                          | 3750                   |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 20.04                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 137       | 20.01                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       | 20.06                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 0         | 19.98                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        | 19.98                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 20.03                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         | 19.98                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 20.08                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 19.95                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 20.00                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 20.03                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.05                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 19.95                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.04                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.03                 |                          |                        | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.97                 |                          |                        | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 19.26                 |                          |                        | 20.5                | 0.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 20.03                 | 20.05                    | 20.03                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 20.06                 | 20.00                    | 20.00                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 20.01                 | 19.97                    | 20.06                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 19.98                 | 20.03                    | 20.03                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 20.03                 | 20.02                    | 20.09                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 20.06                 | 20.06                    | 20.06                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 20.02                 | 20.02                    | 19.99                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 20.03                 | 19.97                    | 20.01                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 19.97                 | 20.05                    | 20.05                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 646700                | 650000                   | 653300                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 19.99                 | 20.02                    | 20.03                  | 21.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 1       | 137       | 19.71                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       | 19.72                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 0         | 19.69                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        | 19.78                 |                          |                        | 21.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 138       | 19.75                 |                          |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         | 19.75                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 19.75                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 19.75                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 19.76                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 19.77                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 19.76                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 19.75                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 19.72                 |                          |                        | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.69                 |                          |                        | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 19.25                 |                          |                        | 20.5                | 0.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 19.75                 | 19.72                    | 19.75                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 19.75                 | 19.71                    | 19.77                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 19.69                 | 19.76                    | 19.71                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 19.72                 | 19.68                    | 19.77                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 19.71                 | 19.70                    | 19.76                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 19.72                 | 19.75                    | 19.70                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 19.68                 | 19.73                    | 19.69                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 19.69                 | 19.72                    | 19.70                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 19.73                 | 19.70                    | 19.72                  | 21.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 630000                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 19.71                 | 19.72                    | 19.75                  | 21.0                | 0.0      |

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|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          |                        | 21.0                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 20.04                    |                        | 21.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 20.01                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 20.06                    |                        | 21.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 19.98                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 19.98                    |                        | 21.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 20.03                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 19.98                    |                        | 21.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 20.08                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 19.95                    |                        | 21.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 20.00                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 20.03                    |                        | 21.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 20.05                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 19.95                    |                        | 21.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 20.04                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 20.03                    |                        | 21.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 19.97                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 19.26                    |                        | 20.5                | 0.5      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 20.03                 | 20.05                    | 20.03                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 20.06                 | 20.00                    | 20.00                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 20.01                 | 19.97                    | 20.06                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 19.98                 | 20.03                    | 20.03                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 20.03                 | 20.02                    | 20.09                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 20.06                 | 20.06                    | 20.06                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 20.02                 | 20.02                    | 19.99                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3713.01               | 3750                     | 3786.99                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 20.03                 | 19.97                    | 20.01                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 19.97                 | 20.06                    | 20.06                  | 21.0                | 0.0      |  |
| Channel                |            |         |           | 645000                | 650000                   | 655000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 19.99                 | 20.02                    | 20.03                  | 21.0                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 14.93                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 14.95                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 14.96                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 14.96                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 14.94                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 15.00                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 14.96                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         | 15.04                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 14.92                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 15.01                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 69        | 15.03                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 138       | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 270     | 0         | 14.99                 |                          |                        |                     |          |  |  |
| 100                | 16QAM      | 1       | 1         | 14.99                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 15.02                 |                          |                        |                     |          |  |  |
| 100                | 256QAM     | 1       | 1         | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3495                  | 3499.98                  | 3504.98                | (dBm)               | (dB)     |  |  |
| 90                 | QPSK       | 1       | 1         | 15.00                 | 14.98                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3496.02               | 3499.98                  | 3503.98                | (dBm)               | (dB)     |  |  |
| 80                 | QPSK       | 1       | 1         | 15.00                 | 15.01                    | 14.97                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |  |
| 70                 | QPSK       | 1       | 1         | 14.98                 | 15.01                    | 15.00                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3480                  | 3499.98                  | 3519.98                | (dBm)               | (dB)     |  |  |
| 60                 | QPSK       | 1       | 1         | 14.95                 | 14.95                    | 14.93                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |  |
| 50                 | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |  |
| 40                 | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 15.01                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |  |
| 30                 | QPSK       | 1       | 1         | 15.02                 | 14.97                    | 14.94                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |  |
| 20                 | QPSK       | 1       | 1         | 15.00                 | 14.97                    | 15.00                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |  |
| 15                 | QPSK       | 1       | 1         | 15.01                 | 14.94                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |  |
| 10                 | QPSK       | 1       | 1         | 15.00                 | 14.96                    | 15.02                  | 16.0                | 0.0      |  |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           | 650000                |                          |                        | 3750                |          |  |  |
| Frequency (MHz)    |            |         |           | 3750                  |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 14.88                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 14.87                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 14.87                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 14.89                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 14.94                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 14.82                 |                          |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 14.92                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         | 15.95                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 137       | 14.81                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       | 14.85                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 0         | 14.89                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 135     | 69        | 14.91                 |                          |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 138       | 14.87                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | QPSK       | 270     | 0         | 14.85                 |                          |                        |                     |          |  |  |
| 100                | 16QAM      | 1       | 1         | 14.76                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         | 14.78                 |                          |                        |                     |          |  |  |
| 100                | 256QAM     | 1       | 1         | 14.88                 |                          |                        | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3742.02               | 3750                     | 3757.98                | (dBm)               | (dB)     |  |  |
| 90                 | QPSK       | 1       | 1         | 14.92                 | 14.84                    | 14.86                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3750                     | 3759.98                | (dBm)               | (dB)     |  |  |
| 80                 | QPSK       | 1       | 1         | 14.92                 | 14.90                    | 14.88                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |  |
| 70                 | QPSK       | 1       | 1         | 14.89                 | 14.89                    | 14.87                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3740.02               | 3750                     | 3761.98                | (dBm)               | (dB)     |  |  |
| 60                 | QPSK       | 1       | 1         | 14.84                 | 14.86                    | 14.84                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3735.01               | 3750                     | 3765.98                | (dBm)               | (dB)     |  |  |
| 50                 | QPSK       | 1       | 1         | 14.87                 | 14.91                    | 14.87                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |  |
| 40                 | QPSK       | 1       | 1         | 14.85                 | 14.88                    | 14.87                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |  |
| 30                 | QPSK       | 1       | 1         | 14.93                 | 14.91                    | 14.86                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3750                     | 3789.98                | (dBm)               | (dB)     |  |  |
| 20                 | QPSK       | 1       | 1         | 14.92                 | 14.90                    | 14.91                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |  |
| 15                 | QPSK       | 1       | 1         | 14.90                 | 14.91                    | 14.89                  | 16.0                | 0.0      |  |  |
| Channel            |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit       | MPR      |  |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |  |
| 10                 | QPSK       | 1       | 1         | 14.89                 | 14.91                    | 14.89                  | 16.0                | 0.0      |  |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 633332                |                          |                        | 3499.98             |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 14.93                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 14.96                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 14.95                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 14.96                 |                          |                        |                     |          |  |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 14.94                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 14.96                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 1         | 15.04                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 14.92                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 1       | 271       | 15.01                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 0         | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 69        | 15.03                 |                          |                        |                     |          |  |  |
| 100                     | QPSK       | 135     | 136       | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | QPSK       | 270     | 0         | 14.99                 |                          |                        |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         | 14.99                 |                          |                        | 16.0                | 0.0      |  |  |
| 100                     | 64QAM      | 1       | 1         | 15.02                 |                          |                        |                     |          |  |  |
| 100                     | 256QAM     | 1       | 1         | 15.02                 |                          |                        | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 633000                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 90                      | QPSK       | 1       | 1         | 15.00                 | 14.98                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632668                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 80                      | QPSK       | 1       | 1         | 15.00                 | 15.01                    | 14.97                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632334                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 70                      | QPSK       | 1       | 1         | 14.95                 | 14.99                    | 15.04                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632002                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 60                      | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 15.01                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631334                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 50                      | QPSK       | 1       | 1         | 14.96                 | 14.97                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630336                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 40                      | QPSK       | 1       | 1         | 14.95                 | 14.97                    | 15.01                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 631000                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 30                      | QPSK       | 1       | 1         | 15.02                 | 14.97                    | 14.94                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630668                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 20                      | QPSK       | 1       | 1         | 15.00                 | 14.99                    | 15.00                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 630330                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 15                      | QPSK       | 1       | 1         | 15.01                 | 14.94                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632332                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |
| 10                      | QPSK       | 1       | 1         | 15.00                 | 14.96                    | 15.02                  | 16.0                | 0.0      |  |  |
| Channel                 |            |         |           | 632000                |                          |                        |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |  |

| Part270_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 650000                |                          |                        | 16.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 14.88                    |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 14.87                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 14.87                    |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 14.89                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 14.94                    |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 14.82                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 14.92                    |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 14.95                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 14.81                    |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 14.85                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 14.89                    |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        |                       | 14.91                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       |                       | 14.87                    |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         |                       | 14.85                    |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         |                       | 14.76                    |                        | 16.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 14.78                    |                        |                     |          |  |
| 100                     | 256QAM     | 1       | 1         |                       | 14.88                    |                        | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3742.02               | 3750                     | 3757.98                | (dBm)               | (dB)     |  |
| 90                      | QPSK       | 1       | 1         | 14.92                 | 14.84                    | 14.88                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 14.92                 | 14.90                    | 14.88                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                      | QPSK       | 1       | 1         | 14.89                 | 14.89                    | 14.87                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                      | QPSK       | 1       | 1         | 14.84                 | 14.86                    | 14.84                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                      | QPSK       | 1       | 1         | 14.87                 | 14.91                    | 14.87                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                      | QPSK       | 1       | 1         | 14.85                 | 14.88                    | 14.87                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                      | QPSK       | 1       | 1         | 14.93                 | 14.91                    | 14.86                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                      | QPSK       | 1       | 1         | 14.92                 | 14.90                    | 14.91                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652632                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3707.62               | 3750                     | 3752.48                | (dBm)               | (dB)     |  |
| 15                      | QPSK       | 1       | 1         | 14.90                 | 14.91                    | 14.89                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                      | QPSK       | 1       | 1         | 14.89                 | 14.91                    | 14.89                  | 16.0                | 0.0      |  |



| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 1         | 18.19                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 18.15                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 271       | 18.13                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 0         | 18.16                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 135     | 69        | 18.16                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 18.19                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 18.28                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 1       | 1         | 18.28                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 1       | 137       | 18.18                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 1       | 271       | 18.17                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         | 18.19                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 135     | 69        | 18.25                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 138       | 18.19                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 270     | 0         | 18.22                 |                          |                        |                     |                     |     |
| 100               | 16QAM      | 1       | 1         | 18.17                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | 64QAM      | 1       | 1         | 18.13                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | 256QAM     | 1       | 1         | 18.19                 |                          |                        |                     | 19.5                | 0.0 |
| Channel           |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3495                  |                          | 3499.98                |                     | 3504.99             |     |
| 80                | QPSK       | 1       | 1         | 18.21                 | 18.23                    | 18.21                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 633332                |                          | 634000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3496.02               |                          | 3499.98                |                     | 3510                |     |
| 80                | QPSK       | 1       | 1         | 18.23                 | 18.23                    | 18.26                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 633332                |                          | 634666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3495.01               |                          | 3499.98                |                     | 3514.98             |     |
| 70                | QPSK       | 1       | 1         | 18.21                 | 18.19                    | 18.19                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3490                  |                          | 3499.98                |                     | 3518.98             |     |
| 60                | QPSK       | 1       | 1         | 18.21                 | 18.24                    | 18.25                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 631668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3475.02               |                          | 3499.98                |                     | 3525                |     |
| 50                | QPSK       | 1       | 1         | 18.24                 | 18.17                    | 18.22                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 631334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3470.01               |                          | 3499.98                |                     | 3529.98             |     |
| 40                | QPSK       | 1       | 1         | 18.24                 | 18.20                    | 18.17                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3465                  |                          | 3499.98                |                     | 3534.99             |     |
| 30                | QPSK       | 1       | 1         | 18.23                 | 18.18                    | 18.25                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3460.02               |                          | 3499.98                |                     | 3540                |     |
| 20                | QPSK       | 1       | 1         | 18.21                 | 18.17                    | 18.26                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3457.5                |                          | 3499.98                |                     | 3542.48             |     |
| 15                | QPSK       | 1       | 1         | 18.19                 | 18.22                    | 18.21                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 632334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3455.01               |                          | 3499.98                |                     | 3544.98             |     |
| 10                | QPSK       | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 0.0                 |     |

| Part27O_n78_Ant 8 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel           |            |         |           | 650000                |                          | 3750                   |                     |                     |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 1         | 18.56                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 1       | 137       | 18.61                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 1       | 271       | 18.56                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 0         | 18.52                 |                          |                        |                     |                     |     |
| 100               | Pl2 BPSK   | 135     | 69        | 18.61                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 135     | 138       | 18.63                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | Pl2 BPSK   | 270     | 0         | 18.45                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 1       | 1         | 18.65                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 1       | 137       | 18.59                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 1       | 271       | 18.54                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 0         | 18.62                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | QPSK       | 135     | 69        | 18.63                 |                          |                        |                     |                     |     |
| 100               | QPSK       | 135     | 138       | 18.49                 |                          |                        |                     | 18.19               |     |
| 100               | QPSK       | 270     | 0         | 18.59                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | 16QAM      | 1       | 1         | 18.52                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | 64QAM      | 1       | 1         | 18.51                 |                          |                        |                     | 19.5                | 0.0 |
| 100               | 256QAM     | 1       | 1         | 18.62                 |                          |                        |                     | 19.5                | 0.0 |
| Channel           |            |         |           | 649968                |                          | 650032                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3742.02               |                          | 3750                   |                     | 3754.98             |     |
| 90                | QPSK       | 1       | 1         | 18.59                 | 18.59                    | 18.62                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 648334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3740.01               |                          | 3750                   |                     | 3759.98             |     |
| 80                | QPSK       | 1       | 1         | 18.57                 | 18.60                    | 18.54                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 648000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3735                  |                          | 3750                   |                     | 3765                |     |
| 70                | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.59                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 646668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3725.01               |                          | 3750                   |                     | 3774.98             |     |
| 60                | QPSK       | 1       | 1         | 18.60                 | 18.61                    | 18.56                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 646334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3720.02               |                          | 3750                   |                     | 3780.98             |     |
| 50                | QPSK       | 1       | 1         | 18.60                 | 18.54                    | 18.57                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 646000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3715.02               |                          | 3750                   |                     | 3784.98             |     |
| 40                | QPSK       | 1       | 1         | 18.60                 | 18.54                    | 18.55                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 645668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3710.02               |                          | 3750                   |                     | 3789.98             |     |
| 30                | QPSK       | 1       | 1         | 18.54                 | 18.54                    | 18.59                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 647334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3713.01               |                          | 3750                   |                     | 3793.98             |     |
| 20                | QPSK       | 1       | 1         | 18.63                 | 18.59                    | 18.61                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 647168                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3707.52               |                          | 3750                   |                     | 3792.48             |     |
| 15                | QPSK       | 1       | 1         | 18.57                 | 18.60                    | 18.58                  | 19.5                | 0.0                 |     |
| Channel           |            |         |           | 645000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)   |            |         |           | 3705                  |                          | 3750                   |                     | 3795                |     |
| 10                | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.62                  | 19.5                | 0.0                 |     |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |                              |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|------------------------------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                     |     |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |                              |     |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                              |     |
| 100                    | Pl2 BPSK   | 1       | 1         | 18.19                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | Pl2 BPSK   | 1       | 137       | 18.15                 |                          |                        |                     |                              |     |
| 100                    | Pl2 BPSK   | 1       | 271       | 18.13                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 0         | 18.16                 |                          |                        |                     |                              |     |
| 100                    | Pl2 BPSK   | 135     | 69        | 18.16                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | Pl2 BPSK   | 135     | 138       | 18.18                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | Pl2 BPSK   | 270     | 0         | 18.28                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | QPSK       | 1       | 1         | 18.28                 |                          |                        |                     |                              |     |
| 100                    | QPSK       | 1       | 137       | 18.18                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | QPSK       | 1       | 271       | 18.17                 |                          |                        |                     |                              |     |
| 100                    | QPSK       | 135     | 0         | 18.19                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | QPSK       | 135     | 69        | 18.25                 |                          |                        |                     |                              |     |
| 100                    | QPSK       | 135     | 138       | 18.19                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | QPSK       | 270     | 0         | 18.22                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | 16QAM      | 1       | 1         | 18.17                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | 64QAM      | 1       | 1         | 18.13                 |                          |                        |                     | 19.5                         | 0.0 |
| 100                    | 256QAM     | 1       | 1         | 18.13                 |                          |                        |                     | 19.5                         | 0.0 |
| Channel                |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3486                  |                          | 3496.84                |                     | 3494.86                      |     |
| 90                     | QPSK       | 1       | 1         | 18.21                 | 18.23                    | 18.21                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633668                |                          | 633332                 |                     | 634000                       |     |
| Frequency (MHz)        |            |         |           | 3498.84               |                          | 3510                   |                     | Tune-up limit (dBm) MPR (dB) |     |
| 80                     | QPSK       | 1       | 1         | 18.23                 | 18.23                    | 18.26                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633334                |                          | 633332                 |                     | 634332                       |     |
| Frequency (MHz)        |            |         |           | 3485.01               |                          | 3496.18                |                     | 3514.38                      |     |
| 70                     | QPSK       | 1       | 1         | 18.21                 | 18.21                    | 18.21                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633000                |                          | 633332                 |                     | 634000                       |     |
| Frequency (MHz)        |            |         |           | 3486                  |                          | 3499.98                |                     | 3519.99                      |     |
| 60                     | QPSK       | 1       | 1         | 18.21                 | 18.24                    | 18.25                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633334                |                          | 633332                 |                     | 635332                       |     |
| Frequency (MHz)        |            |         |           | 3479.50               |                          | 3499.98                |                     | 3525                         |     |
| 50                     | QPSK       | 1       | 1         | 18.24                 | 18.27                    | 18.22                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633334                |                          | 633332                 |                     | 635332                       |     |
| Frequency (MHz)        |            |         |           | 3479.50               |                          | 3499.98                |                     | 3524.99                      |     |
| 40                     | QPSK       | 1       | 1         | 18.24                 | 18.20                    | 18.17                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 631000                |                          | 633332                 |                     | 636666                       |     |
| Frequency (MHz)        |            |         |           | 3465                  |                          | 3499.98                |                     | 3524.99                      |     |
| 30                     | QPSK       | 1       | 1         | 18.23                 | 18.18                    | 18.25                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 630668                |                          | 633332                 |                     | 633000                       |     |
| Frequency (MHz)        |            |         |           | 3465.02               |                          | 3499.98                |                     | 3540                         |     |
| 20                     | QPSK       | 1       | 1         | 18.21                 | 18.17                    | 18.26                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 632000                |                          | 633332                 |                     | 633666                       |     |
| Frequency (MHz)        |            |         |           | 3457.5                |                          | 3499.98                |                     | 3542.49                      |     |
| 15                     | QPSK       | 1       | 1         | 18.19                 | 18.22                    | 18.21                  | 19.5                | 0.0                          |     |
| Channel                |            |         |           | 633334                |                          | 633332                 |                     | 633332                       |     |
| Frequency (MHz)        |            |         |           | 3463.01               |                          | 3499.98                |                     | 3544.86                      |     |
| 10                     | QPSK       | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 0.0                          |     |



| Part27O_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 18.56                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 18.61                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 18.55                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 0         | 18.52                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 69        | 18.61                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 18.63                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         | 18.45                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 18.65                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 18.59                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 18.54                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 18.62                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 18.63                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 18.49                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         | 18.59                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 18.52                 |                          |                        | 19.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 18.51                 |                          |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         | 18.62                 |                          |                        | 19.5                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               |          |  |
| 90                     | QPSK       | 1       | 1         | 18.59                 | 18.59                    | 18.62                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               |          |  |
| 80                     | QPSK       | 1       | 1         | 18.57                 | 18.60                    | 18.55                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               |          |  |
| 70                     | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.59                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 646668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3750                     | 3769.98                | (dBm)               |          |  |
| 60                     | QPSK       | 1       | 1         | 18.60                 | 18.61                    | 18.56                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               |          |  |
| 50                     | QPSK       | 1       | 1         | 18.60                 | 18.54                    | 18.57                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               |          |  |
| 40                     | QPSK       | 1       | 1         | 18.60                 | 18.54                    | 18.55                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               |          |  |
| 30                     | QPSK       | 1       | 1         | 18.54                 | 18.54                    | 18.59                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               |          |  |
| 20                     | QPSK       | 1       | 1         | 18.53                 | 18.59                    | 18.61                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                | (dBm)               |          |  |
| 15                     | QPSK       | 1       | 1         | 18.57                 | 18.60                    | 18.59                  | 19.5                | 0.0      |  |
| Channel                |            |         |           | 645000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               |          |  |
| 10                     | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.62                  | 19.5                | 0.0      |  |

## Reduced Power Mode for DSI7

| n2_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>372000 | Power Middle<br>Ch. 1 Freq.<br>376000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 15.11                              | 15.23                                 | 15.17                               | 16.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 15.02                              | 15.19                                 | 15.10                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 15.19                              | 15.26                                 | 15.02                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 15.06                              | 15.21                                 | 15.04                               | 16.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 15.11                              | 15.23                                 | 15.10                               | 16.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 15.11                              | 15.19                                 | 15.23                               | 16.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 15.16                              | 15.26                                 | 15.14                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 15.13                              | 15.31                                 | 15.15                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 15.11                              | 15.25                                 | 15.09                               | 16.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 15.11                              | 15.20                                 | 14.99                               | 16.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 15.12                              | 15.26                                 | 15.04                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 15.14                              | 15.28                                 | 15.22                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 15.11                              | 15.20                                 | 15.21                               | 16.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 15.09                              | 15.23                                 | 15.02                               |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 15.07                              | 15.22                                 | 15.10                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 15.07                              | 15.22                                 | 15.08                               | 16.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 15.09                              | 15.18                                 | 15.03                               | 16.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1860.5                             | 1880                                  | 1902.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 15.04                              | 15.25                                 | 15.07                               | 16.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1855                               | 1880                                  | 1905                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 15.02                              | 15.29                                 | 15.12                               | 15.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1880                                  | 1907.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 15.08                              | 15.28                                 | 15.09                               | 16.0                   | 0.0         |  |

| n2_Ant 1        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>372000 | Power Middle<br>Ch. 1 Freq.<br>376000 | Power High<br>Ch. 1 Freq.<br>380000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                               | 1880                                  | 1900                                |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 15.89                              | 15.86                                 | 15.82                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 15.81                              | 16.05                                 | 15.88                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 15.70                              | 15.84                                 | 15.88                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 15.88                              | 15.86                                 | 15.92                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 15.80                              | 15.83                                 | 15.77                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 15.86                              | 15.89                                 | 15.88                               | 17.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 15.76                              | 15.91                                 | 15.77                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 16.05                              | 16.16                                 | 16.11                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 15.82                              | 15.92                                 | 15.88                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 15.92                              | 16.06                                 | 16.01                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 15.90                              | 15.86                                 | 15.90                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 16.00                              | 16.09                                 | 15.92                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 15.87                              | 15.98                                 | 15.79                               | 17.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 15.96                              | 16.05                                 | 15.92                               |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 15.94                              | 15.91                                 | 15.91                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 15.81                              | 15.82                                 | 15.92                               | 17.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 15.84                              | 15.99                                 | 16.01                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                             | 376000                                | 380500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1867.5                             | 1880                                  | 1902.5                              |                        |             |  |
| 15              | QPSK       | 1       | 1         | 16.01                              | 16.11                                 | 16.08                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                             | 376000                                | 381000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1865                               | 1880                                  | 1905                                |                        |             |  |
| 10              | QPSK       | 1       | 1         | 15.99                              | 16.11                                 | 16.00                               | 17.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                             | 376000                                | 381500                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                             | 1880                                  | 1907.5                              |                        |             |  |
| 5               | QPSK       | 1       | 1         | 16.02                              | 16.06                                 | 16.00                               | 17.0                   | 0.0         |  |

| n5_Ant 0        |            |         |           |                                    |                                       |                                     |                        |             |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>166800 | Power Middle<br>Ch. 1 Freq.<br>167500 | Power High<br>Ch. 1 Freq.<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                                | 836.5                                 | 839                                 |                        |             |  |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 1         | 22.78                              | 22.82                                 | 22.80                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 1       | 53        | 22.89                              | 22.96                                 | 22.87                               |                        |             |  |
| 20              | Pl2 BPSK   | 1       | 104       | 22.76                              | 22.86                                 | 22.78                               |                        |             |  |
| 20              | Pl2 BPSK   | 50      | 0         | 22.78                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 28        | 22.90                              | 22.95                                 | 22.90                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 50      | 56        | 22.77                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | Pl2 BPSK   | 100     | 0         | 22.78                              | 22.88                                 | 22.83                               |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.95                              | 23.00                                 | 22.90                               |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.79                              | 22.82                                 | 22.79                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.82                              | 22.85                                 | 22.76                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 22.76                              | 22.85                                 | 22.76                               |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.91                              | 22.96                                 | 22.92                               |                        |             |  |
| 20              | QPSK       | 50      | 56        | 22.77                              | 22.86                                 | 22.84                               | 24.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 22.87                              | 22.90                                 | 22.84                               |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 22.87                              | 22.92                                 | 22.87                               |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 21.61                              | 21.65                                 | 21.55                               | 22.5                   | 1.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.69                              | 19.71                                 | 19.67                               | 20.5                   | 3.5         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 168300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                              | 836.5                                 | 841.5                               |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.78                              | 22.83                                 | 22.84                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166800                             | 167300                                | 168800                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 834                                | 836.5                                 | 844                                 |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.83                              | 22.98                                 | 22.76                               | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166300                             | 167300                                | 169300                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 836.5                              | 836.5                                 | 846.5                               |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.83                              | 22.83                                 | 22.83                               | 24.0                   | 0.0         |  |

| n5_Ant 1        |            |         |           |                                  |                                     |                                   |                        |             |     |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |     |
| Frequency (MHz) |            |         |           | 834                              | 836.5                               | 839                               |                        |             |     |
| 20              | PI2 BPSK   | 1       | 1         | 20.87                            | 20.89                               | 20.84                             |                        |             |     |
| 20              | PI2 BPSK   | 1       | 53        | 20.90                            | 20.85                               | 20.92                             | 21.5                   |             | 0.0 |
| 20              | PI2 BPSK   | 1       | 104       | 20.84                            | 20.88                               | 20.90                             |                        |             |     |
| 20              | PI2 BPSK   | 50      | 0         | 20.85                            | 20.91                               | 20.83                             | 21.5                   | 0.0         |     |
| 20              | PI2 BPSK   | 50      | 28        | 20.87                            | 20.85                               | 20.85                             | 21.5                   | 0.0         |     |
| 20              | PI2 BPSK   | 50      | 56        | 20.91                            | 20.85                               | 20.80                             |                        |             |     |
| 20              | PI2 BPSK   | 100     | 0         | 20.87                            | 20.84                               | 20.92                             | 21.5                   | 0.0         |     |
| 20              | QPSK       | 1       | 1         | 20.92                            | 20.94                               | 20.88                             |                        |             |     |
| 20              | QPSK       | 1       | 53        | 20.91                            | 20.90                               | 20.88                             | 21.5                   | 0.0         |     |
| 20              | QPSK       | 1       | 104       | 20.90                            | 20.88                               | 20.85                             |                        |             |     |
| 20              | QPSK       | 50      | 0         | 20.90                            | 20.87                               | 20.82                             | 21.5                   | 0.0         |     |
| 20              | QPSK       | 50      | 28        | 20.91                            | 20.92                               | 20.85                             | 21.5                   | 0.0         |     |
| 20              | QPSK       | 50      | 56        | 20.88                            | 20.88                               | 20.80                             |                        |             |     |
| 20              | QPSK       | 100     | 0         | 20.87                            | 20.92                               | 20.86                             | 21.5                   | 0.0         |     |
| 20              | 16QAM      | 1       | 1         | 20.85                            | 20.87                               | 20.90                             | 21.5                   | 0.0         |     |
| 20              | 64QAM      | 1       | 1         | 20.90                            | 20.91                               | 20.84                             | 21.5                   | 0.0         |     |
| 20              | 256QAM     | 1       | 1         | 19.62                            | 19.64                               | 19.62                             | 20.5                   | 1.0         |     |
| Channel         |            |         |           | 166300                           | 167300                              | 168300                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Frequency (MHz) |            |         |           | 831.5                            | 836.5                               | 841.5                             |                        |             |     |
| 15              | QPSK       | 1       | 1         | 20.84                            | 20.86                               | 20.75                             | 21.5                   | 0.0         |     |
| Channel         |            |         |           | 165800                           | 167300                              | 168800                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Frequency (MHz) |            |         |           | 829                              | 836.5                               | 844                               |                        |             |     |
| 10              | QPSK       | 1       | 1         | 20.87                            | 20.83                               | 20.81                             | 21.5                   | 0.0         |     |
| Channel         |            |         |           | 166300                           | 167300                              | 168300                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Frequency (MHz) |            |         |           | 836.5                            | 836.5                               | 846.5                             |                        |             |     |
| 5               | QPSK       | 1       | 1         | 20.86                            | 20.88                               | 20.83                             | 21.5                   | 0.0         |     |

| n7_Ant 9        |            |         |           |                                  |                                     |                                   |                        |             |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           | 2520                             | 2535                                | 2550                              |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 18.76                            | 17.05                               | 18.93                             |                        |             |  |
| 40              | PI2 BPSK   | 1       | 108       | 17.05                            | 17.05                               | 17.12                             | 18.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 214       | 17.00                            | 17.11                               | 17.18                             |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 18.86                            | 17.04                               | 18.98                             | 18.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 54        | 18.82                            | 17.02                               | 18.92                             | 18.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 18.89                            | 17.20                               | 17.15                             | 18.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 216     | 0         | 17.00                            | 17.12                               | 17.10                             | 18.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 1         | 17.12                            | 17.28                               | 17.11                             |                        |             |  |
| 40              | QPSK       | 1       | 108       | 18.76                            | 18.86                               | 18.95                             | 18.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 17.11                            | 17.04                               | 17.08                             |                        |             |  |
| 40              | QPSK       | 108     | 0         | 17.04                            | 17.04                               | 17.07                             | 18.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 54        | 17.18                            | 17.22                               | 17.20                             | 18.0                   | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 17.04                            | 17.13                               | 17.08                             | 18.0                   | 0.0         |  |
| 40              | QPSK       | 216     | 0         | 17.17                            | 17.19                               | 17.12                             | 18.0                   | 0.0         |  |
| 40              | 16QAM      | 1       | 1         | 17.04                            | 17.22                               | 17.21                             | 18.0                   | 0.0         |  |
| 40              | 64QAM      | 1       | 1         | 16.85                            | 17.03                               | 16.92                             | 18.0                   | 0.0         |  |
| 40              | 256QAM     | 1       | 1         | 17.09                            | 17.20                               | 17.23                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 505000                           | 507000                              | 511000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2515                             | 2535                                | 2555                              |                        |             |  |
| 30              | QPSK       | 1       | 1         | 17.10                            | 17.24                               | 17.01                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                           | 507000                              | 511900                            | Tune-up limit<br>(dB)  | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2512.5                           | 2535                                | 2557.5                            |                        |             |  |
| 25              | QPSK       | 1       | 1         | 17.09                            | 17.17                               | 17.07                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 502000                           | 507000                              | 512000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2510                             | 2535                                | 2560                              |                        |             |  |
| 20              | QPSK       | 1       | 1         | 17.05                            | 17.18                               | 17.02                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 501500                           | 507000                              | 512100                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                           | 2535                                | 2562.5                            |                        |             |  |
| 15              | QPSK       | 1       | 1         | 17.03                            | 17.24                               | 17.07                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                           | 507000                              | 513000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2505                             | 2535                                | 2565                              |                        |             |  |
| 10              | QPSK       | 1       | 1         | 17.01                            | 17.18                               | 17.09                             | 18.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                           | 507000                              | 513000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                           | 2535                                | 2567.5                            |                        |             |  |
| 5               | QPSK       | 1       | 1         | 17.03                            | 17.26                               | 17.07                             | 18.0                   | 0.0         |  |

| n7_Ant 1        |            |         |           |                                  |                                     |                                   |                        |             |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>504000 | Power Middle<br>Ch. Freq.<br>507000 | Power High<br>Ch. Freq.<br>510000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           |                                  |                                     |                                   |                        |             |  |
| Frequency (MHz) |            |         |           | 2520                             | 2535                                | 2550                              |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 14.55                            | 14.59                               | 14.48                             |                        |             |  |
| 40              | PI2 BPSK   | 1       | 108       | 14.69                            | 14.60                               | 14.66                             | 15.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 214       | 14.59                            | 14.71                               | 14.75                             |                        |             |  |
| 40              | PI2 BPSK   | 108     | 0         | 14.46                            | 14.59                               | 14.45                             | 15.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 54        | 14.44                            | 14.68                               | 14.48                             | 15.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 108     | 108       | 14.60                            | 14.69                               | 14.59                             | 15.5                   | 0.0         |  |
| 40              | PI2 BPSK   | 216     | 0         | 14.62                            | 14.67                               | 14.73                             |                        |             |  |
| 40              | QPSK       | 1       | 1         | 14.63                            | 14.77                               | 14.75                             |                        |             |  |
| 40              | QPSK       | 1       | 108       | 14.55                            | 14.65                               | 14.72                             | 15.5                   | 0.0         |  |
| 40              | QPSK       | 1       | 214       | 14.59                            | 14.65                               | 14.65                             |                        |             |  |
| 40              | QPSK       | 108     | 0         | 14.64                            | 14.68                               | 14.68                             | 15.5                   | 0.0         |  |
| 40              | QPSK       | 108     | 54        | 14.65                            | 14.75                               | 14.70                             | 15.5                   | 0.0         |  |
| 40              | QPSK       | 108     | 108       | 14.58                            | 14.64                               | 14.68                             |                        |             |  |
| 40              | QPSK       | 216     | 0         | 14.70                            | 14.72                               | 14.70                             | 15.5                   | 0.0         |  |
| 40              | 16QAM      | 1       | 1         | 14.65                            | 14.73                               | 14.75                             | 15.5                   | 0.0         |  |
| 40              | 64QAM      | 1       | 1         | 14.51                            | 14.70                               | 14.64                             | 15.5                   | 0.0         |  |
| 40              | 256QAM     | 1       | 1         | 14.62                            | 14.67                               | 14.73                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 503000                           | 507000                              | 511000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2515                             | 2535                                | 2555                              |                        |             |  |
| 30              | QPSK       | 1       | 1         | 14.52                            | 14.68                               | 14.68                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 502000                           | 507000                              | 511900                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2512.5                           | 2535                                | 2557.5                            |                        |             |  |
| 25              | QPSK       | 1       | 1         | 14.52                            | 14.71                               | 14.64                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 502000                           | 507000                              | 512000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2510                             | 2535                                | 2560                              |                        |             |  |
| 20              | QPSK       | 1       | 1         | 14.60                            | 14.70                               | 14.70                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 501500                           | 507000                              | 512100                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                           | 2535                                | 2562.5                            |                        |             |  |
| 15              | QPSK       | 1       | 1         | 14.53                            | 14.68                               | 14.72                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 501000                           | 507000                              | 513000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2505                             | 2535                                | 2565                              |                        |             |  |
| 10              | QPSK       | 1       | 1         | 14.59                            | 14.70                               | 14.71                             | 15.5                   | 0.0         |  |
| Channel         |            |         |           | 500500                           | 507000                              | 513000                            | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                           | 2535                                | 2567.5                            |                        |             |  |
| 5               | QPSK       | 1       | 1         | 14.55                            | 14.67                               | 14.68                             | 15.5                   | 0.0         |  |



| n12_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>141300 | Power Middle<br>Ch. 1 Freq.<br>141500 | Power High<br>Ch. 1 Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 708.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 22.87                              | 22.90                                 | 22.84                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 22.91                              | 22.96                                 | 22.91                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 22.83                              | 22.93                                 | 22.83                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.84                              | 22.88                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        | 22.74                              | 22.79                                 | 22.77                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.69                              | 22.75                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.84                              | 22.88                                 | 22.80                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.96                              | 23.01                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 22.85                              | 22.92                                 | 22.83                               |                        |             |
| 15              | QPSK       | 1       | 77        | 22.83                              | 22.93                                 | 22.91                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.79                              | 22.86                                 | 22.79                               |                        |             |
| 15              | QPSK       | 36      | 22        | 22.91                              | 22.96                                 | 22.92                               | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.70                              | 22.78                                 | 22.70                               | 24.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         | 22.84                              | 22.90                                 | 22.87                               | 24.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         | 22.85                              | 22.91                                 | 22.86                               | 24.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         | 21.43                              | 21.51                                 | 21.49                               | 22.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         | 19.51                              | 19.55                                 | 19.49                               | 20.5                   | 3.5         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.88                              | 22.99                                 | 22.86                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.19                              | 22.34                                 | 22.87                               | 24.0                   | 0.0         |

| n12_Ant 1       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>141300 | Power Middle<br>Ch. 1 Freq.<br>141500 | Power High<br>Ch. 1 Freq.<br>141700 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 706.5                              | 707.5                                 | 708.5                               | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         | 22.34                              | 22.39                                 | 22.27                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 40        | 22.36                              | 22.34                                 | 22.38                               |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        | 22.37                              | 22.31                                 | 22.27                               | 23.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 0         | 22.39                              | 22.36                                 | 22.38                               | 23.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        | 22.37                              | 22.38                                 | 22.32                               | 23.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        | 22.33                              | 22.36                                 | 22.33                               | 23.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         | 22.34                              | 22.34                                 | 22.30                               | 23.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.38                              | 22.40                                 | 22.38                               | 23.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 22.36                              | 22.36                                 | 22.27                               |                        |             |
| 15              | QPSK       | 1       | 77        | 22.37                              | 22.33                                 | 22.36                               |                        |             |
| 15              | QPSK       | 36      | 0         | 22.34                              | 22.30                                 | 22.26                               |                        |             |
| 15              | QPSK       | 36      | 22        | 22.37                              | 22.38                                 | 22.30                               | 23.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.36                              | 22.36                                 | 22.35                               | 23.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         | 22.29                              | 22.37                                 | 22.36                               | 23.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         | 22.37                              | 22.35                                 | 22.37                               | 23.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         | 21.05                              | 21.11                                 | 21.08                               | 21.5                   | 1.5         |
| 15              | 256QAM     | 1       | 1         | 19.08                              | 19.18                                 | 19.17                               | 19.5                   | 3.5         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 704                                | 707.5                                 | 711                                 | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.35                              | 22.34                                 | 22.34                               | 23.0                   | 0.0         |
| Channel         |            |         |           | 140300                             | 141500                                | 142700                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 701.5                              | 707.5                                 | 713.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.27                              | 22.34                                 | 22.30                               | 23.0                   | 0.0         |

| n14_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>159600 | Power Middle<br>Ch. 1 Freq.<br>159800 | Power High<br>Ch. 1 Freq.<br>160000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 793                                |                                       |                                     | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         |                                    | 22.78                                 |                                     |                        |             |
| 15              | Pl2 BPSK   | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        |                                    | 22.76                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 0         |                                    | 22.84                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        |                                    | 22.89                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        |                                    | 22.83                                 |                                     | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         |                                    | 22.84                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         |                                    | 22.82                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        |                                    | 22.80                                 |                                     |                        |             |
| 10              | QPSK       | 1       | 50        |                                    | 22.72                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 0         |                                    | 22.85                                 |                                     |                        |             |
| 10              | QPSK       | 25      | 14        |                                    | 22.71                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | QPSK       | 50      | 0         |                                    | 22.68                                 |                                     | 24.0                   | 0.0         |
| 10              | 16QAM      | 1       | 1         |                                    | 22.80                                 |                                     | 24.0                   | 0.0         |
| 10              | 64QAM      | 1       | 1         |                                    | 21.57                                 |                                     | 22.5                   | 1.5         |
| 10              | 256QAM     | 1       | 1         |                                    | 19.45                                 |                                     | 20.5                   | 3.5         |
| Channel         |            |         |           | 159100                             | 159800                                | 159100                              | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 790.5                              | 793                                   | 795.5                               | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.74                              | 22.75                                 | 22.75                               | 24.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 793                      |                             |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 1         | 23.15                    |                             |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 1       | 26        | 23.16                    |                             |                           |                        |             |
| 10              | Pl2 BPSK   | 1       | 50        | 23.16                    |                             |                           |                        |             |
| 10              | Pl2 BPSK   | 25      | 0         | 23.04                    |                             |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 14        | 23.05                    |                             |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 25      | 27        | 22.96                    |                             |                           | 24.0                   | 0.0         |
| 10              | Pl2 BPSK   | 50      | 0         | 23.00                    |                             |                           |                        |             |
| 10              | QPSK       | 1       | 1         | 23.21                    |                             |                           |                        |             |
| 10              | QPSK       | 1       | 26        | 23.18                    |                             |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 50        | 23.16                    |                             |                           | 23.5                   | 0.5         |
| 10              | QPSK       | 23      | 0         | 22.55                    |                             |                           |                        |             |
| 10              | QPSK       | 25      | 14        | 23.11                    |                             |                           |                        |             |
| 10              | QPSK       | 25      | 27        | 22.83                    |                             |                           | 23.5                   | 0.5         |
| 10              | QPSK       | 50      | 0         | 22.81                    |                             |                           | 23.5                   | 0.5         |
| 10              | 16QAM      | 1       | 1         | 22.61                    |                             |                           | 23.5                   | 0.5         |
| 10              | 64QAM      | 1       | 1         | 21.33                    |                             |                           | 22.0                   | 2.0         |
| 10              | 256QAM     | 1       | 1         | 19.15                    |                             |                           | 20.0                   | 4.0         |
| Channel         |            |         |           | 159.60                   | 159.60                      | 159.60                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 790.5                    | 793                         | 796.5                     |                        |             |
| 5               | QPSK       | 1       | 1         | 23.12                    | 23.14                       | 23.08                     |                        |             |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 1870                     | 1882.5                      | 1895                      |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 15.02                    | 15.11                       | 15.27                     | 16.0                   | 0.0         |
| 40              | Pl2 BPSK   | 1       | 108       | 15.21                    | 15.21                       | 15.26                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 214       | 15.07                    | 15.14                       | 15.26                     |                        |             |
| 40              | Pl2 BPSK   | 108     | 0         | 15.05                    | 15.11                       | 15.11                     | 16.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 54        | 15.02                    | 15.23                       | 15.04                     | 16.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 108       | 15.12                    | 15.30                       | 15.11                     | 16.0                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 15.14                    | 15.10                       | 15.12                     |                        |             |
| 40              | QPSK       | 1       | 1         | 15.30                    | 15.38                       | 15.28                     |                        |             |
| 40              | QPSK       | 1       | 108       | 15.06                    | 15.22                       | 15.19                     | 16.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 15.26                    | 15.26                       | 15.03                     | 16.0                   | 0.0         |
| 40              | QPSK       | 108     | 0         | 15.02                    | 15.11                       | 15.00                     |                        |             |
| 40              | QPSK       | 108     | 54        | 15.24                    | 15.30                       | 15.26                     |                        |             |
| 40              | QPSK       | 108     | 108       | 15.16                    | 15.28                       | 15.06                     | 16.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 15.21                    | 15.26                       | 15.26                     | 16.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 15.12                    | 15.32                       | 15.32                     |                        |             |
| 40              | 64QAM      | 1       | 1         | 15.11                    | 15.04                       | 15.04                     |                        |             |
| 40              | 256QAM     | 1       | 1         | 15.18                    | 15.24                       | 15.14                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 373500                   | 376500                      | 379500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1890                      |                        |             |
| 35              | QPSK       | 1       | 1         | 15.22                    | 15.32                       | 15.22                     |                        |             |
| Channel         |            |         |           | 373000                   | 376500                      | 380000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1890                      |                        |             |
| 30              | QPSK       | 1       | 1         | 15.22                    | 15.30                       | 15.18                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 372500                   | 376500                      | 380500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1902.5                    |                        |             |
| 25              | QPSK       | 1       | 1         | 15.21                    | 15.29                       | 15.20                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | QPSK       | 1       | 1         | 15.24                    | 15.36                       | 15.23                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376500                      | 381500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1897.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 15.21                    | 15.29                       | 15.19                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 15.19                    | 15.27                       | 15.25                     | 16.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 15.19                    | 15.28                       | 15.21                     | 16.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 1870                     | 1882.5                      | 1895                      |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 15.64                    | 15.61                       | 15.69                     | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 1       | 108       | 15.52                    | 15.57                       | 15.71                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 214       | 15.37                    | 15.42                       | 15.35                     |                        |             |
| 40              | Pl2 BPSK   | 108     | 0         | 15.47                    | 15.62                       | 15.55                     | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 54        | 15.53                    | 15.64                       | 15.53                     | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 108       | 15.64                    | 15.64                       | 15.77                     | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 15.35                    | 15.37                       | 15.34                     |                        |             |
| 40              | QPSK       | 1       | 1         | 15.65                    | 15.78                       | 15.70                     |                        |             |
| 40              | QPSK       | 1       | 108       | 15.61                    | 15.55                       | 15.68                     | 17.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 15.40                    | 15.39                       | 15.20                     | 17.0                   | 0.0         |
| 40              | QPSK       | 108     | 0         | 15.05                    | 15.60                       | 15.64                     |                        |             |
| 40              | QPSK       | 108     | 54        | 15.65                    | 15.70                       | 15.66                     |                        |             |
| 40              | QPSK       | 108     | 108       | 15.42                    | 15.30                       | 15.21                     | 17.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 15.62                    | 15.65                       | 15.55                     | 17.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 15.55                    | 15.63                       | 15.65                     |                        |             |
| 40              | 64QAM      | 1       | 1         | 15.64                    | 15.43                       | 15.62                     |                        |             |
| 40              | 256QAM     | 1       | 1         | 15.50                    | 15.49                       | 15.54                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 373500                   | 376500                      | 379500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1890                      |                        |             |
| 35              | QPSK       | 1       | 1         | 15.60                    | 15.74                       | 15.69                     |                        |             |
| Channel         |            |         |           | 373000                   | 376500                      | 380000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1890                      |                        |             |
| 30              | QPSK       | 1       | 1         | 15.63                    | 15.74                       | 15.68                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 372500                   | 376500                      | 380500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1902.5                    |                        |             |
| 25              | QPSK       | 1       | 1         | 15.62                    | 15.75                       | 15.65                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | QPSK       | 1       | 1         | 15.61                    | 15.70                       | 15.73                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376500                      | 381500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1867.5                   | 1882.5                      | 1897.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 15.66                    | 15.70                       | 15.71                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 15.59                    | 15.67                       | 15.68                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 15.61                    | 15.71                       | 15.72                     | 17.0                   | 0.0         |

| n26(FCC)_Ant 0  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 22.84                        | 22.90                           | 22.87                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 22.99                        | 23.02                           | 22.97                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 22.92                        | 23.00                           | 22.98                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 22.84                        | 22.90                           | 22.88                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 22.89                        | 22.95                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 22.88                        | 22.93                           | 22.89                         | 24.0                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 22.82                        | 22.92                           | 22.85                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.95                        | 23.09                           | 23.05                         | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 22.88                        | 22.95                           | 22.93                         |                     |          |
| 20              | QPSK       | 1       | 104       | 22.92                        | 23.02                           | 23.00                         |                     |          |
| 20              | QPSK       | 50      | 0         | 22.47                        | 22.53                           | 22.45                         |                     |          |
| 20              | QPSK       | 50      | 28        | 22.88                        | 22.96                           | 22.87                         | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.85                        | 22.71                           | 22.65                         | 23.5                | 0.5      |
| 20              | QPSK       | 100     | 0         | 22.80                        | 22.82                           | 22.58                         | 23.5                | 0.5      |
| 20              | 16QAM      | 1       | 1         | 22.57                        | 22.65                           | 22.55                         | 23.5                | 0.5      |
| 20              | 64QAM      | 1       | 1         | 21.08                        | 21.15                           | 21.07                         | 22.0                | 2.0      |
| 20              | 256QAM     | 1       | 1         | 19.13                        | 19.17                           | 19.14                         | 20.0                | 4.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.95                        | 23.03                           | 22.95                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.97                        | 23.05                           | 22.96                         | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 22.94                        | 23.07                           | 23.01                         | 24.0                | 0.0      |

| n26(FCC)_Ant 1  |            |         |           |                              |                                 |                               |                     |          |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 164800 | Power Middle Ch. / Freq. 166300 | Power High Ch. / Freq. 167800 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                          | 831.5                           | 839                           | 21.5                | 0.0      |
| Frequency (MHz) |            |         |           | 20.71                        | 20.78                           | 20.70                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 1         | 20.71                        | 20.69                           | 20.74                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 53        | 20.70                        | 20.69                           | 20.74                         |                     |          |
| 20              | Pl2 BPSK   | 1       | 104       | 20.77                        | 20.78                           | 20.72                         | 21.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 0         | 20.73                        | 20.69                           | 20.74                         | 21.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 28        | 20.76                        | 20.74                           | 20.70                         | 21.5                | 0.0      |
| 20              | Pl2 BPSK   | 50      | 56        | 20.73                        | 20.76                           | 20.68                         | 21.5                | 0.0      |
| 20              | Pl2 BPSK   | 100     | 0         | 20.70                        | 20.73                           | 20.71                         | 21.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 20.73                        | 20.79                           | 20.75                         | 21.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 20.69                        | 20.77                           | 20.73                         |                     |          |
| 20              | QPSK       | 1       | 104       | 20.70                        | 20.71                           | 20.74                         |                     |          |
| 20              | QPSK       | 50      | 0         | 20.72                        | 20.77                           | 20.73                         |                     |          |
| 20              | QPSK       | 50      | 28        | 20.75                        | 20.76                           | 20.74                         | 21.5                | 0.0      |
| 20              | QPSK       | 50      | 56        | 20.73                        | 20.77                           | 20.70                         | 21.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 20.70                        | 20.77                           | 20.72                         | 21.5                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 20.73                        | 20.74                           | 20.71                         | 21.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 20.72                        | 20.77                           | 20.70                         | 21.5                | 0.0      |
| 20              | 256QAM     | 1       | 1         | 19.78                        | 19.88                           | 19.86                         | 19.5                | 2.0      |
| Channel         |            |         |           | 164300                       | 166300                          | 168300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                        | 831.5                           | 841.5                         | 21.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 20.66                        | 20.73                           | 20.68                         | 21.5                | 0.0      |
| Channel         |            |         |           | 163800                       | 166300                          | 168800                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                          | 831.5                           | 844                           | 21.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 20.62                        | 20.73                           | 20.71                         | 21.5                | 0.0      |
| Channel         |            |         |           | 163300                       | 166300                          | 169300                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                        | 831.5                           | 846.5                         | 21.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 20.69                        | 20.74                           | 20.68                         | 21.5                | 0.0      |

| n30_Ant 9       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2310                  |                          |                        | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 20.79                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 1         | 20.79                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 26        | 20.83                 |                          |                        |                     |          |
| 10              | Pl2 BPSK   | 1       | 50        | 20.84                 |                          |                        | 22.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 0         | 20.81                 |                          |                        | 22.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 14        | 20.82                 |                          |                        | 22.0                | 0.0      |
| 10              | Pl2 BPSK   | 26      | 27        | 20.81                 |                          |                        | 22.0                | 0.0      |
| 10              | Pl2 BPSK   | 50      | 0         | 20.82                 |                          |                        | 22.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 20.89                 |                          |                        | 22.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 20.80                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 20.87                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 0         | 20.83                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 14        | 20.87                 |                          |                        | 22.0                | 0.0      |
| 10              | QPSK       | 25      | 27        | 20.85                 |                          |                        | 22.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 20.85                 |                          |                        | 22.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 20.86                 |                          |                        | 22.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 20.82                 |                          |                        | 22.0                | 0.0      |
| 10              | 256QAM     | 1       | 1         | 19.86                 |                          |                        | 20.5                | 1.5      |
| Channel         |            |         |           | 461500                | 462500                   | 463500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 | 22.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 20.85                 | 20.80                    | 20.87                  | 22.0                | 0.0      |

| n30_Ant 1       |            |         |           |                       |                                 |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|---------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 462000 | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                                 |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 2310                            |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 14.12                           |                        | 16.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        |                       | 14.19                           |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        |                       | 14.07                           |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 14.14                           |                        | 16.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 14.08                           |                        | 16.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 14.07                           |                        | 16.0                | 0.0      |
| 10              | PI2 BPSK   | 50      | 0         |                       | 14.14                           |                        |                     |          |
| 10              | QPSK       | 1       | 1         |                       | 14.20                           |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 14.06                           |                        | 16.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 14.02                           |                        | 16.0                | 0.0      |
| 10              | QPSK       | 25      | 0         |                       | 14.08                           |                        |                     |          |
| 10              | QPSK       | 25      | 14        |                       | 14.15                           |                        |                     |          |
| 10              | QPSK       | 25      | 27        |                       | 14.14                           |                        | 16.0                | 0.0      |
| 10              | QPSK       | 50      | 0         |                       | 14.09                           |                        | 16.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         |                       | 14.06                           |                        | 16.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         |                       | 14.15                           |                        | 16.0                | 0.0      |
| 10              | 256QAM     | 1       | 1         |                       | 14.07                           |                        | 16.0                | 0.0      |
| Channel         |            |         |           | 481500                | 462000                          | 462500                 | Tune-up limit 68m   | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                            | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 14.13                 | 14.17                           | 14.15                  | 16.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>346000 | Power Middle<br>Ch. 1 Freq.<br>349000 | Power High<br>Ch. 1 Freq.<br>352000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 1730                               | 1745                                  | 1760                                |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 16.17                              | 16.20                                 | 16.09                               |                        |             |
| 40              | Pl2 BPSK   | 1       | 108       | 16.30                              | 16.07                                 | 15.99                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 1       | 214       | 16.16                              | 16.21                                 | 16.17                               |                        |             |
| 40              | Pl2 BPSK   | 108     | 0         | 16.19                              | 16.22                                 | 16.08                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 54        | 16.17                              | 16.16                                 | 16.19                               |                        |             |
| 40              | Pl2 BPSK   | 108     | 108       | 16.15                              | 16.01                                 | 15.93                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 16.21                              | 16.20                                 | 16.18                               |                        |             |
| 40              | QPSK       | 1       | 1         | 16.15                              | 16.24                                 | 16.16                               |                        |             |
| 40              | QPSK       | 1       | 108       | 16.09                              | 16.10                                 | 16.04                               | 17.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 16.13                              | 16.16                                 | 16.07                               |                        |             |
| 40              | QPSK       | 108     | 0         | 16.14                              | 16.16                                 | 16.09                               | 17.0                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 16.16                              | 16.20                                 | 16.16                               |                        |             |
| 40              | QPSK       | 108     | 108       | 16.07                              | 16.16                                 | 16.14                               |                        |             |
| 40              | QPSK       | 216     | 0         | 16.16                              | 16.16                                 | 16.15                               | 17.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 16.17                              | 16.21                                 | 16.14                               | 17.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 16.03                              | 16.04                                 | 16.01                               | 17.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 16.16                              | 16.14                                 | 16.10                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 346000                             | 349000                                | 352000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 35              | QPSK       | 1       | 1         | 16.04                              | 16.22                                 | 16.08                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 349000                             | 349000                                | 353000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 16.12                              | 16.22                                 | 16.16                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 349000                             | 349000                                | 353000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 16.07                              | 16.18                                 | 16.08                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 344000                             | 349000                                | 354000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 16.10                              | 16.13                                 | 16.10                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 343000                             | 349000                                | 354000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 16.05                              | 16.16                                 | 16.08                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 343000                             | 349000                                | 350000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 16.05                              | 16.13                                 | 16.14                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           | 342500                             | 349000                                | 350000                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 16.07                              | 16.14                                 | 16.13                               | 17.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq.<br>346000 | Power Middle<br>Ch. 1 Freq.<br>349000 | Power High<br>Ch. 1 Freq.<br>352000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 40              | Pl2 BPSK   | 1       | 1         | 15.92                              | 16.00                                 | 15.92                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 1       | 108       | 15.86                              | 15.95                                 | 15.84                               |                        |             |
| 40              | Pl2 BPSK   | 1       | 214       | 15.77                              | 15.90                                 | 15.93                               |                        |             |
| 40              | Pl2 BPSK   | 108     | 0         | 15.88                              | 15.92                                 | 15.99                               |                        |             |
| 40              | Pl2 BPSK   | 108     | 54        | 15.90                              | 15.97                                 | 16.02                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 108     | 108       | 15.86                              | 16.03                                 | 16.00                               | 17.0                   | 0.0         |
| 40              | Pl2 BPSK   | 216     | 0         | 15.79                              | 15.95                                 | 15.78                               | 17.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 15.95                              | 16.14                                 | 16.03                               | 17.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 15.84                              | 15.99                                 | 15.92                               |                        |             |
| 40              | QPSK       | 1       | 214       | 15.71                              | 15.81                                 | 15.71                               |                        |             |
| 40              | QPSK       | 108     | 0         | 15.92                              | 15.95                                 | 15.96                               |                        |             |
| 40              | QPSK       | 108     | 54        | 15.93                              | 16.03                                 | 15.99                               | 17.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 15.81                              | 15.86                                 | 15.67                               | 17.0                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 15.83                              | 15.86                                 | 15.85                               | 17.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 15.84                              | 15.96                                 | 16.00                               | 17.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 15.79                              | 15.94                                 | 15.83                               | 17.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 15.90                              | 15.79                                 | 15.83                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 35              | QPSK       | 1       | 1         | 15.86                              | 16.09                                 | 15.94                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 30              | QPSK       | 1       | 1         | 15.98                              | 16.11                                 | 15.99                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 25              | QPSK       | 1       | 1         | 15.90                              | 16.05                                 | 15.99                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 20              | QPSK       | 1       | 1         | 15.85                              | 16.03                                 | 15.98                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 15              | QPSK       | 1       | 1         | 15.91                              | 16.11                                 | 15.97                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 10              | QPSK       | 1       | 1         | 15.93                              | 16.05                                 | 15.95                               | 17.0                   | 0.0         |
| Channel         |            |         |           |                                    |                                       |                                     |                        |             |
| Frequency (MHz) |            |         |           |                                    |                                       |                                     |                        |             |
| 5               | QPSK       | 1       | 1         | 15.87                              | 16.12                                 | 16.01                               | 17.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. 1 Freq. | Power Middle<br>Ch. 1 Freq. | Power High<br>Ch. 1 Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           |                          | 1702.5                      |                           |                        |             |
| 15              | Pl2 BPSK   | 1       | 1         |                          | 17.95                       |                           | 19.0                   | 0.0         |
| 15              | Pl2 BPSK   | 1       | 40        |                          | 17.99                       |                           |                        |             |
| 15              | Pl2 BPSK   | 1       | 77        |                          | 17.95                       |                           |                        |             |
| 15              | Pl2 BPSK   | 36      | 0         |                          | 17.93                       |                           | 19.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 22        |                          | 17.94                       |                           | 19.0                   | 0.0         |
| 15              | Pl2 BPSK   | 36      | 43        |                          | 17.97                       |                           | 19.0                   | 0.0         |
| 15              | Pl2 BPSK   | 75      | 0         |                          | 17.98                       |                           | 19.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         |                          | 18.02                       |                           | 19.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        |                          | 17.92                       |                           |                        |             |
| 15              | QPSK       | 1       | 77        |                          | 17.97                       |                           |                        |             |
| 15              | QPSK       | 36      | 0         |                          | 17.95                       |                           | 19.0                   | 0.0         |
| 15              | QPSK       | 36      | 22        |                          | 17.97                       |                           | 19.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        |                          | 17.93                       |                           | 19.0                   | 0.0         |
| 15              | QPSK       | 75      | 0         |                          | 17.96                       |                           | 19.0                   | 0.0         |
| 15              | 16QAM      | 1       | 1         |                          | 17.91                       |                           | 19.0                   | 0.0         |
| 15              | 64QAM      | 1       | 1         |                          | 17.99                       |                           |                        |             |
| 15              | 256QAM     | 1       | 1         |                          | 17.92                       |                           |                        |             |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 346000                   | 349000                      | 341000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | QPSK       | 1       | 1         | 17.92                    | 17.99                       | 17.92                     | 19.0                   | 0.0         |
| Channel         |            |         |           |                          |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 339500                   | 340500                      | 341500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5               | QPSK       | 1       | 1         | 17.99                    | 17.95                       | 17.99                     | 19.0                   | 0.0         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 1       | 1         | 16.90                 |                          |                        | 17.5                | 0.0      |
| 15              | Pl2 BPSK   | 1       | 40        | 16.90                 |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 1       | 77        | 16.85                 |                          |                        |                     |          |
| 15              | Pl2 BPSK   | 36      | 0         | 16.81                 |                          |                        | 17.5                | 0.0      |
| 15              | Pl2 BPSK   | 36      | 22        | 16.89                 |                          |                        | 17.5                | 0.0      |
| 15              | Pl2 BPSK   | 36      | 43        | 16.86                 |                          |                        | 17.5                | 0.0      |
| 15              | Pl2 BPSK   | 75      | 0         | 16.82                 |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 16.91                 |                          |                        | 17.5                | 0.0      |
| 15              | QPSK       | 1       | 40        | 16.90                 |                          |                        |                     |          |
| 15              | QPSK       | 1       | 77        | 16.90                 |                          |                        |                     |          |
| 15              | QPSK       | 36      | 0         | 16.88                 |                          |                        | 17.5                | 0.0      |
| 15              | QPSK       | 36      | 22        | 16.90                 |                          |                        | 17.5                | 0.0      |
| 15              | QPSK       | 36      | 43        | 16.89                 |                          |                        | 17.5                | 0.0      |
| 15              | QPSK       | 75      | 0         | 16.87                 |                          |                        |                     |          |
| 15              | 16QAM      | 1       | 1         | 16.84                 |                          |                        | 17.5                | 0.0      |
| 15              | 64QAM      | 1       | 1         | 16.83                 |                          |                        | 17.5                | 0.0      |
| 15              | 256QAM     | 1       | 1         | 16.84                 |                          |                        | 17.5                | 0.0      |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |
| 10              | QPSK       | 1       | 1         | 16.81                 | 16.88                    | 16.82                  | 17.5                | 0.0      |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 16.93                 | 16.81                    | 16.89                  | 17.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 678                   | 680.5                    | 683                    |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         | 23.05                 | 23.07                    | 22.98                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 80        | 22.99                 | 22.80                    | 22.99                  |                     |          |
| 30              | Pl2 BPSK   | 1       | 158       | 22.63                 | 22.68                    | 22.65                  |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         | 22.65                 | 22.72                    | 22.69                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        | 22.65                 | 22.74                    | 22.66                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        | 22.46                 | 22.51                    | 22.49                  | 24.0                | 0.0      |
| 30              | Pl2 BPSK   | 160     | 0         | 22.66                 | 22.68                    | 22.62                  |                     |          |
| 30              | QPSK       | 1       | 1         | 23.06                 | 23.12                    | 23.06                  | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 80        | 22.64                 | 22.65                    | 22.64                  |                     |          |
| 30              | QPSK       | 1       | 158       | 22.66                 | 22.72                    | 22.67                  |                     |          |
| 30              | QPSK       | 80      | 0         | 22.66                 | 22.73                    | 22.71                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 40        | 22.68                 | 22.75                    | 22.72                  | 24.0                | 0.0      |
| 30              | QPSK       | 80      | 80        | 22.38                 | 22.48                    | 22.39                  | 24.0                | 0.0      |
| 30              | QPSK       | 160     | 0         | 22.66                 | 22.71                    | 22.67                  |                     |          |
| 30              | 16QAM      | 1       | 1         | 22.99                 | 23.02                    | 22.95                  | 24.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         | 22.01                 | 22.07                    | 22.04                  | 22.5                | 1.5      |
| 30              | 256QAM     | 1       | 1         | 20.07                 | 20.14                    | 20.09                  | 20.5                | 3.5      |
| Channel         |            |         |           | 134100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 675.5                 | 680.5                    | 685.5                  |                     |          |
| 25              | QPSK       | 1       | 1         | 23.06                 | 23.02                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20              | QPSK       | 1       | 1         | 23.02                 | 23.04                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15              | QPSK       | 1       | 1         | 22.98                 | 23.05                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |          |
| 10              | QPSK       | 1       | 1         | 23.02                 | 23.02                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 685.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 22.98                 | 23.08                    | 22.95                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 678                   | 680.5                    | 683                    |                     |          |
| 30              | Pl2 BPSK   | 1       | 1         | 22.28                 | 22.26                    | 22.14                  | 23.0                | 0.0      |
| 30              | Pl2 BPSK   | 1       | 80        | 22.23                 | 22.25                    | 22.20                  |                     |          |
| 30              | Pl2 BPSK   | 1       | 158       | 22.24                 | 22.28                    | 22.18                  |                     |          |
| 30              | Pl2 BPSK   | 80      | 0         | 22.29                 | 22.26                    | 22.15                  | 23.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 40        | 22.27                 | 22.25                    | 22.12                  | 23.0                | 0.0      |
| 30              | Pl2 BPSK   | 80      | 80        | 22.20                 | 22.27                    | 22.05                  | 23.0                | 0.0      |
| 30              | Pl2 BPSK   | 160     | 0         | 22.24                 | 22.24                    | 22.08                  |                     |          |
| 30              | QPSK       | 1       | 1         | 22.29                 | 22.30                    | 22.26                  | 23.0                | 0.0      |
| 30              | QPSK       | 1       | 80        | 22.28                 | 22.27                    | 22.23                  |                     |          |
| 30              | QPSK       | 1       | 158       | 22.26                 | 22.29                    | 22.22                  |                     |          |
| 30              | QPSK       | 80      | 0         | 22.24                 | 22.25                    | 22.10                  | 23.0                | 0.0      |
| 30              | QPSK       | 80      | 40        | 22.26                 | 22.26                    | 22.24                  | 23.0                | 0.0      |
| 30              | QPSK       | 80      | 80        | 22.25                 | 22.25                    | 22.01                  | 23.0                | 0.0      |
| 30              | QPSK       | 160     | 0         | 22.26                 | 22.27                    | 22.22                  |                     |          |
| 30              | 16QAM      | 1       | 1         | 22.25                 | 22.27                    | 22.14                  | 23.0                | 0.0      |
| 30              | 64QAM      | 1       | 1         | 21.38                 | 21.43                    | 21.26                  | 22.5                | 0.5      |
| 30              | 256QAM     | 1       | 1         | 19.39                 | 19.42                    | 19.30                  | 20.5                | 2.5      |
| Channel         |            |         |           | 135100                | 136100                   | 137100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 675                   | 680.5                    | 685.5                  |                     |          |
| 25              | QPSK       | 1       | 1         | 22.26                 | 22.23                    | 22.15                  | 23.0                | 0.0      |
| Channel         |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.18                 | 22.23                    | 22.22                  | 23.0                | 0.0      |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15              | QPSK       | 1       | 1         | 22.24                 | 22.26                    | 22.20                  | 23.0                | 0.0      |
| Channel         |            |         |           | 133200                | 134100                   | 135000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 666                   | 680.5                    | 693                    |                     |          |
| 10              | QPSK       | 1       | 1         | 22.21                 | 22.28                    | 22.17                  | 23.0                | 0.0      |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 685.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 22.26                 | 22.19                    | 22.21                  | 23.0                | 0.0      |



| n38_Ant 9       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2580.02               | 2585                     | 2589.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 14.28                 | 14.35                    | 14.21                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 14.34                 | 14.36                    | 14.23                  | 15.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 14.24                 | 14.16                    | 14.09                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 14.35                 | 14.37                    | 14.33                  | 15.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 14.20                 | 14.35                    | 14.21                  | 15.5                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 14.32                 | 14.41                    | 14.33                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 14.28                 | 14.09                    | 14.03                  | 15.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 14.39                 | 14.44                    | 14.43                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 14.22                 | 14.31                    | 14.42                  | 15.5                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 14.18                 | 14.08                    | 14.09                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 14.27                 | 14.23                    | 14.30                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 14.35                 | 14.40                    | 14.35                  | 15.5                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 14.30                 | 14.12                    | 14.03                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 14.28                 | 14.34                    | 14.24                  | 15.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 14.30                 | 14.35                    | 14.38                  | 15.5                | 0.0      |  |
| 40              | 8QAM       | 1       | 1         | 14.40                 | 14.36                    | 14.38                  | 15.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 14.18                 | 14.16                    | 14.12                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580.01               | 2585                     | 2584.99                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 14.30                 | 14.40                    | 14.32                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 518000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2580                  | 2585                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 14.37                 | 14.37                    | 14.32                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2585                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 14.28                 | 14.35                    | 14.39                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2585                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 14.30                 | 14.41                    | 14.36                  | 15.5                | 0.0      |  |

| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518004                | 518000                   | 519996                 |                     |          |  |
|                 |            |         |           | 2580.02               | 2585                     | 2589.98                |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 1         | 13.91                 | 13.85                    | 13.84                  |                     |          |  |
| 40              | Pl2 BPSK   | 1       | 53        | 13.67                 | 13.75                    | 13.57                  | 15.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 1       | 104       | 13.67                 | 13.74                    | 13.76                  |                     |          |  |
| 40              | Pl2 BPSK   | 50      | 0         | 13.75                 | 13.88                    | 13.91                  | 15.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 28        | 13.79                 | 13.66                    | 13.87                  | 15.0                | 0.0      |  |
| 40              | Pl2 BPSK   | 50      | 56        | 13.71                 | 13.81                    | 13.84                  |                     |          |  |
| 40              | Pl2 BPSK   | 100     | 0         | 13.83                 | 13.93                    | 13.92                  | 15.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 13.88                 | 13.95                    | 13.95                  |                     |          |  |
| 40              | QPSK       | 1       | 53        | 13.70                 | 13.80                    | 13.67                  | 15.0                | 0.0      |  |
| 40              | QPSK       | 1       | 104       | 13.80                 | 13.90                    | 13.86                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 13.80                 | 13.76                    | 13.71                  |                     |          |  |
| 40              | QPSK       | 50      | 28        | 13.74                 | 13.92                    | 13.85                  | 15.0                | 0.0      |  |
| 40              | QPSK       | 50      | 56        | 13.79                 | 13.78                    | 13.82                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 13.71                 | 13.80                    | 13.79                  | 15.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 13.93                 | 13.86                    | 13.94                  | 15.0                | 0.0      |  |
| 40              | 8QAM       | 1       | 1         | 13.71                 | 13.87                    | 13.66                  | 15.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 13.78                 | 13.88                    | 13.79                  | 15.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2585.01               | 2595                     | 2604.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 13.82                 | 13.93                    | 13.78                  | 15.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 518000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2585                  | 2600                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 13.75                 | 13.84                    | 13.86                  | 15.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 517002                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2577.51               | 2585                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 13.76                 | 13.89                    | 13.78                  | 15.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 515004                | 518000                   | 522998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2574.02               | 2585                     | 2614.98                |                     |          |  |
| 10              | QPSK       | 1       | 1         | 13.77                 | 13.86                    | 13.79                  | 15.0                | 0.0      |  |

| FCC_n41_Ant 9   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506002                | 518000                   | 528000                 |                     |          |  |
|                 |            |         |           | 2546.01               | 2582.99                  | 2560                   |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 1         | 14.42                 | 14.47                    | 14.37                  |                     |          |  |
| 100             | Pl2 BPSK   | 1       | 137       | 14.10                 | 14.44                    | 14.39                  | 15.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 1       | 271       | 14.39                 | 14.21                    | 14.22                  |                     |          |  |
| 100             | Pl2 BPSK   | 135     | 0         | 14.44                 | 14.38                    | 14.39                  | 15.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 69        | 14.15                 | 14.36                    | 14.37                  | 15.5                | 0.0      |  |
| 100             | Pl2 BPSK   | 135     | 138       | 14.28                 | 14.29                    | 14.18                  |                     |          |  |
| 100             | Pl2 BPSK   | 270     | 0         | 14.24                 | 14.34                    | 14.39                  | 15.5                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 14.42                 | 14.50                    | 14.43                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 14.31                 | 14.19                    | 14.04                  | 15.5                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 14.34                 | 14.34                    | 14.33                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 14.18                 | 14.29                    | 14.20                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 14.33                 | 14.42                    | 14.31                  | 15.5                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 14.28                 | 14.29                    | 14.36                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 14.14                 | 14.30                    | 14.35                  | 15.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 14.45                 | 14.44                    | 14.46                  | 15.5                | 0.0      |  |
| 100             | 8QAM       | 1       | 1         | 14.20                 | 14.32                    | 14.26                  | 15.5                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 14.38                 | 14.28                    | 14.21                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506000                | 518000                   | 528000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2544.01               | 2582.99                  | 2544.98                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 14.37                 | 14.44                    | 14.38                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 507204                | 518000                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2536.02               | 2582.99                  | 2549.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 14.34                 | 14.40                    | 14.34                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 506002                | 518000                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2531.01               | 2582.99                  | 2565                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 14.36                 | 14.43                    | 14.39                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 505200                | 518000                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2526.06               | 2582.99                  | 2583.93                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 14.39                 | 14.48                    | 14.36                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 504204                | 518000                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2521.02               | 2582.99                  | 2584.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 14.49                 | 14.49                    | 14.59                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 503202                | 518000                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2516.01               | 2582.99                  | 2570                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 14.31                 | 14.45                    | 14.43                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 502200                | 518000                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2511.01               | 2582.99                  | 2574.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 14.33                 | 14.40                    | 14.42                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 501204                | 518000                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2506.02               | 2582.99                  | 2579.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 14.38                 | 14.44                    | 14.42                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 500202                | 518000                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2500.01               | 2582.99                  | 2588                   |                     |          |  |
| 15              | QPSK       | 1       | 1         | 14.38                 | 14.44                    | 14.37                  | 15.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2500.01               | 2582.99                  | 2588                   | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 2500.01               | 2582.99                  | 2588                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 14.35                 | 14.42                    | 14.38                  | 15.5                | 0.0      |  |

| FCC_n41 HPUE_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.02                | 15.5                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 2566.01               | 2592.99                  | 2560                   |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 1         | 14.42                 | 14.47                    | 14.37                  | 15.5                | 0.0      |  |
| 100                | PQ2 BPSK   | 1       | 137       | 14.10                 | 14.44                    | 14.39                  |                     |          |  |
| 100                | PQ2 BPSK   | 1       | 271       | 14.39                 | 14.21                    | 14.22                  | 15.5                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 0         | 14.44                 | 14.38                    | 14.39                  |                     |          |  |
| 100                | PQ2 BPSK   | 135     | 69        | 14.15                 | 14.36                    | 14.37                  | 15.5                | 0.0      |  |
| 100                | PQ2 BPSK   | 135     | 138       | 14.28                 | 14.29                    | 14.18                  |                     |          |  |
| 100                | PQ2 BPSK   | 270     | 0         | 14.34                 | 14.34                    | 14.39                  | 15.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 14.42                 | 14.50                    | 14.05                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 14.31                 | 14.19                    | 14.04                  | 15.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 14.34                 | 14.34                    | 14.33                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.18                 | 14.29                    | 14.20                  | 15.5                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 14.11                 | 14.47                    | 14.37                  |                     |          |  |
| 100                | QPSK       | 135     | 138       | 14.28                 | 14.29                    | 14.36                  | 15.5                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 14.14                 | 14.36                    | 14.35                  |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 14.45                 | 14.44                    | 14.46                  | 15.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.29                 | 14.32                    | 14.26                  |                     |          |  |
| 100                | 256QAM     | 1       | 1         | 14.38                 | 14.28                    | 14.21                  | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5060.00               | 5189.98                  | 5289.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2544.98                | 15.5                | 0.0      |  |
| 90                 | QPSK       | 1       | 1         | 14.37                 | 14.41                    | 14.33                  |                     |          |  |
| Channel            |            |         |           | 5072.04               | 5189.98                  | 5299.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2549.99                | 15.5                | 0.0      |  |
| 80                 | QPSK       | 1       | 1         | 14.34                 | 14.40                    | 14.34                  |                     |          |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2565                   | 15.5                | 0.0      |  |
| 70                 | QPSK       | 1       | 1         | 14.36                 | 14.43                    | 14.39                  |                     |          |  |
| Channel            |            |         |           | 5052.00               | 5189.98                  | 5319.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2541                  | 2592.99                  | 2559.98                | 15.5                | 0.0      |  |
| 60                 | QPSK       | 1       | 1         | 14.39                 | 14.48                    | 14.36                  |                     |          |  |
| Channel            |            |         |           | 5042.04               | 5189.98                  | 5329.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2564.99                | 15.5                | 0.0      |  |
| 50                 | QPSK       | 1       | 1         | 14.40                 | 14.43                    | 14.39                  |                     |          |  |
| Channel            |            |         |           | 5032.02               | 5189.98                  | 5340.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2570                   | 15.5                | 0.0      |  |
| 40                 | QPSK       | 1       | 1         | 14.31                 | 14.45                    | 14.43                  |                     |          |  |
| Channel            |            |         |           | 5022.00               | 5189.98                  | 5359.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2574.98                | 15.5                | 0.0      |  |
| 30                 | QPSK       | 1       | 1         | 14.33                 | 14.40                    | 14.42                  |                     |          |  |
| Channel            |            |         |           | 5012.04               | 5189.98                  | 5369.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2506.02               | 2592.99                  | 2579.99                | 15.5                | 0.0      |  |
| 20                 | QPSK       | 1       | 1         | 14.39                 | 14.41                    | 14.42                  |                     |          |  |
| Channel            |            |         |           | 5007.00               | 5189.98                  | 5364.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2582.48                | 15.5                | 0.0      |  |
| 15                 | QPSK       | 1       | 1         | 14.38                 | 14.44                    | 14.37                  |                     |          |  |
| Channel            |            |         |           | 5002.02               | 5189.98                  | 5370.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2585                   | 15.5                | 0.0      |  |
| 10                 | QPSK       | 1       | 1         | 14.36                 | 14.42                    | 14.38                  |                     |          |  |





| FCC_n41_Ant 1   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 13.39                 | 13.42                    | 13.44                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 137       | 13.22                 | 13.23                    | 13.25                  | 15.0                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 271       | 13.04                 | 13.04                    | 13.24                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 9         | 13.41                 | 13.40                    | 13.44                  | 15.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 69        | 13.10                 | 13.18                    | 13.17                  | 15.0                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 138       | 13.09                 | 13.21                    | 13.02                  | 15.0                | 0.0      |  |
| 100             | P12 BPSK   | 270     | 0         | 13.28                 | 13.38                    | 13.42                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 13.37                 | 13.46                    | 13.36                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 13.03                 | 13.25                    | 13.14                  | 15.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 13.31                 | 13.30                    | 13.20                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 13.23                 | 13.19                    | 13.15                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 13.35                 | 13.45                    | 13.35                  | 15.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 13.35                 | 13.35                    | 13.27                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 13.12                 | 13.32                    | 13.13                  | 15.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 13.33                 | 13.36                    | 13.34                  | 15.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 13.14                 | 13.18                    | 13.23                  | 15.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 13.10                 | 13.12                    | 13.11                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 506200                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 13.33                 | 13.35                    | 13.28                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 13.33                 | 13.37                    | 13.28                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 508202                | 518998                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 13.27                 | 13.44                    | 13.32                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 509200                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 13.31                 | 13.42                    | 13.32                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 13.29                 | 13.39                    | 13.28                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 505202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 13.30                 | 13.40                    | 13.27                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 506200                | 518998                   | 535098                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 13.30                 | 13.43                    | 13.25                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 13.29                 | 13.35                    | 13.27                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 13.26                 | 13.44                    | 13.34                  | 15.0                | 0.0      |  |
| Channel         |            |         |           | 2501.01               | 2592.99                  | 2685                   | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 13.30                 | 13.36                    | 13.32                  | 15.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 1 |            |         |           |                       |                          |                        |                     |          |     |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |     |
| 100                | P12 BPSK   | 1       | 1         | 13.39                 | 13.42                    | 13.44                  |                     |          |     |
| 100                | P12 BPSK   | 1       | 137       | 13.22                 | 13.23                    | 13.25                  | 15.0                |          | 0.0 |
| 100                | P12 BPSK   | 1       | 271       | 13.04                 | 13.04                    | 13.24                  |                     |          |     |
| 100                | P12 BPSK   | 135     | 0         | 13.41                 | 13.40                    | 13.44                  | 15.0                |          | 0.0 |
| 100                | P12 BPSK   | 135     | 69        | 13.10                 | 13.18                    | 13.17                  | 15.0                |          | 0.0 |
| 100                | P12 BPSK   | 135     | 138       | 13.09                 | 13.21                    | 13.02                  | 15.0                |          | 0.0 |
| 100                | P12 BPSK   | 270     | 0         | 13.26                 | 13.38                    | 13.42                  |                     |          |     |
| 100                | QPSK       | 1       | 1         | 13.37                 | 13.45                    | 13.38                  |                     |          |     |
| 100                | QPSK       | 1       | 137       | 13.03                 | 13.25                    | 13.14                  | 15.0                |          | 0.0 |
| 100                | QPSK       | 1       | 271       | 13.31                 | 13.30                    | 13.20                  |                     |          |     |
| 100                | QPSK       | 135     | 0         | 13.23                 | 13.19                    | 13.15                  |                     |          |     |
| 100                | QPSK       | 135     | 69        | 13.35                 | 13.45                    | 13.35                  | 15.0                |          | 0.0 |
| 100                | QPSK       | 135     | 138       | 13.35                 | 13.35                    | 13.27                  |                     |          |     |
| 100                | QPSK       | 270     | 0         | 13.12                 | 13.32                    | 13.13                  | 15.0                |          | 0.0 |
| 100                | 16QAM      | 1       | 1         | 13.33                 | 13.36                    | 13.34                  | 15.0                |          | 0.0 |
| 100                | 64QAM      | 1       | 1         | 13.14                 | 13.18                    | 13.23                  | 15.0                |          | 0.0 |
| 100                | 256QAM     | 1       | 1         | 13.10                 | 13.12                    | 13.11                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 506200                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2541                  | 2592.99                  | 2644.98                | (dB)                |          |     |
| 90                 | QPSK       | 1       | 1         | 13.33                 | 13.35                    | 13.28                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 507204                | 518998                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               |          |     |
| 80                 | QPSK       | 1       | 1         | 13.33                 | 13.37                    | 13.28                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               |          |     |
| 70                 | QPSK       | 1       | 1         | 13.27                 | 13.44                    | 13.32                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 505200                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2521.02               | 2592.99                  | 2664.98                | (dBm)               |          |     |
| 60                 | QPSK       | 1       | 1         | 13.31                 | 13.42                    | 13.32                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               |          |     |
| 50                 | QPSK       | 1       | 1         | 13.29                 | 13.39                    | 13.28                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               |          |     |
| 40                 | QPSK       | 1       | 1         | 13.30                 | 13.40                    | 13.27                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 502200                | 518998                   | 535098                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dB)                |          |     |
| 30                 | QPSK       | 1       | 1         | 13.30                 | 13.43                    | 13.25                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dB)                |          |     |
| 20                 | QPSK       | 1       | 1         | 13.29                 | 13.35                    | 13.27                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               |          |     |
| 15                 | QPSK       | 1       | 1         | 13.26                 | 13.44                    | 13.34                  | 15.0                |          | 0.0 |
| Channel            |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   | Tune-up limit (dBm) | MPR (dB) |     |
|                    |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               |          |     |
| 10                 | QPSK       | 1       | 1         | 13.30                 | 13.36                    | 13.32                  | 15.0                |          | 0.0 |

| FCC_n41_Ant 2   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 2506.02               | 15898                    | 52800                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 20.12                 | 20.03                    | 20.13                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 137       | 19.95                 | 20.00                    | 20.03                  | 21.5                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 271       | 19.84                 | 19.96                    | 19.89                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 19.98                 | 20.10                    | 20.00                  | 21.5                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 69        | 19.86                 | 20.10                    | 20.14                  | 21.5                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 138       | 19.81                 | 19.98                    | 19.94                  |                     |          |  |
| 100             | P12 BPSK   | 270     | 0         | 19.84                 | 20.04                    | 20.06                  | 21.5                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 20.08                 | 20.14                    | 20.27                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 19.91                 | 19.97                    | 20.12                  | 21.5                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 19.82                 | 19.90                    | 20.02                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 19.96                 | 20.03                    | 20.04                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 20.08                 | 20.13                    | 20.22                  | 21.5                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 19.86                 | 19.95                    | 19.95                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 20.02                 | 20.08                    | 20.12                  | 21.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 20.10                 | 20.15                    | 20.23                  | 21.5                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 19.96                 | 19.95                    | 20.15                  | 21.5                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 20.05                 | 20.04                    | 20.25                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 52800                 | 15898                    | 52896                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2541                  | 2542.09                  | 2444.88                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 20.00                 | 20.06                    | 20.20                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 507204                | 15898                    | 52998                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 20.00                 | 20.07                    | 20.20                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 506202                | 15898                    | 53100                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 20.01                 | 20.12                    | 20.18                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 505000                | 15898                    | 53196                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2526.00               | 2592.99                  | 2649.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 20.02                 | 20.07                    | 20.18                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 504204                | 15898                    | 53298                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2524.02               | 2592.99                  | 2648.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 20.08                 | 20.09                    | 20.17                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 503202                | 15898                    | 53400                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.99                 | 20.06                    | 20.17                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 502200                | 15898                    | 53596                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 20.03                 | 20.09                    | 20.25                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 501204                | 15898                    | 53598                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2678.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.08                 | 20.09                    | 20.21                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 500200                | 15898                    | 53696                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.97                 | 20.09                    | 20.17                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 499200                | 15898                    | 53700                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.06                 | 20.04                    | 20.22                  | 21.5                | 0.0      |  |



| FCC_n41 HPUE_Ant 2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02               | 5189.98                  | 5290.00                |                     |          |  |
| Frequency (MHz)    |            |         |           | 2556.01               | 2592.99                  | 2590                   |                     |          |  |
| 100                | P12 BPSK   | 1       | 1         | 20.12                 | 20.03                    | 20.13                  |                     |          |  |
| 100                | P12 BPSK   | 1       | 137       | 19.95                 | 20.00                    | 20.03                  | 21.5                | 0.0      |  |
| 100                | P12 BPSK   | 1       | 271       | 19.94                 | 19.96                    | 19.99                  |                     |          |  |
| 100                | P12 BPSK   | 135     | 9         | 19.98                 | 20.10                    | 20.00                  | 21.5                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 69        | 20.06                 | 20.10                    | 20.14                  | 21.5                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 138       | 19.98                 | 19.96                    | 19.94                  | 21.5                | 0.0      |  |
| 100                | P12 BPSK   | 270     | 0         | 19.84                 | 20.04                    | 20.06                  |                     |          |  |
| 100                | QPSK       | 1       | 1         | 20.18                 | 20.14                    | 20.27                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 19.91                 | 19.97                    | 20.12                  | 21.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 19.92                 | 19.90                    | 20.02                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 19.96                 | 20.03                    | 20.04                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 20.06                 | 20.11                    | 20.22                  | 21.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 19.98                 | 19.95                    | 19.95                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 20.02                 | 20.09                    | 20.12                  | 21.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 20.02                 | 20.15                    | 20.23                  | 21.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 19.96                 | 19.95                    | 20.15                  | 21.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 20.05                 | 20.04                    | 20.25                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 506200                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2557.02               | 2592.99                  | 2544.98                | (dB)                | (dB)     |  |
| 90                 | QPSK       | 1       | 1         | 20.00                 | 20.05                    | 20.20                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dBm)    |  |
| 80                 | QPSK       | 1       | 1         | 20.06                 | 20.07                    | 20.25                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dBm)    |  |
| 70                 | QPSK       | 1       | 1         | 20.01                 | 20.12                    | 20.18                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 505200                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dBm)    |  |
| 60                 | QPSK       | 1       | 1         | 20.02                 | 20.07                    | 20.19                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 504204                | 518998                   | 532996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dBm)    |  |
| 50                 | QPSK       | 1       | 1         | 20.00                 | 20.04                    | 20.17                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dBm)    |  |
| 40                 | QPSK       | 1       | 1         | 19.99                 | 20.06                    | 20.17                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 502200                | 518998                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dBm)    |  |
| 30                 | QPSK       | 1       | 1         | 20.03                 | 20.09                    | 20.25                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 501204                | 518998                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dBm)    |  |
| 20                 | QPSK       | 1       | 1         | 20.05                 | 20.09                    | 20.23                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dBm)    |  |
| 15                 | QPSK       | 1       | 1         | 19.97                 | 20.05                    | 20.17                  | 21.5                | 0.0      |  |
| Channel            |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz)    |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dBm)    |  |
| 10                 | QPSK       | 1       | 1         | 20.06                 | 20.04                    | 20.22                  | 21.5                | 0.0      |  |

| FCC_n41_Ant 6   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 5060.02               | 5189.98                  | 5290.00                |                     |          |  |
| Frequency (MHz) |            |         |           | 2556.01               | 2592.99                  | 2590                   |                     |          |  |
| 100             | P12 BPSK   | 1       | 1         | 14.22                 | 14.24                    | 14.22                  |                     |          |  |
| 100             | P12 BPSK   | 1       | 137       | 14.20                 | 14.23                    | 14.23                  | 15.5                | 0.0      |  |
| 100             | P12 BPSK   | 1       | 271       | 14.21                 | 14.24                    | 14.19                  |                     |          |  |
| 100             | P12 BPSK   | 135     | 0         | 14.26                 | 14.24                    | 14.20                  | 15.5                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 69        | 14.24                 | 14.19                    | 14.18                  | 15.5                | 0.0      |  |
| 100             | P12 BPSK   | 135     | 138       | 14.26                 | 14.21                    | 14.10                  | 15.5                | 0.0      |  |
| 100             | P12 BPSK   | 270     | 0         | 14.25                 | 14.23                    | 14.21                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 14.25                 | 14.27                    | 14.26                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 14.20                 | 14.18                    | 14.25                  | 15.5                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 14.17                 | 14.21                    | 14.19                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 14.16                 | 14.23                    | 14.21                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 14.22                 | 14.25                    | 14.21                  | 15.5                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 14.20                 | 14.24                    | 14.22                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 14.16                 | 14.22                    | 14.21                  | 15.5                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 14.21                 | 14.21                    | 14.20                  | 15.5                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 14.25                 | 14.22                    | 14.12                  | 15.5                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 14.25                 | 14.16                    | 14.19                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 506200                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2544.98                | (dBm)               | (dBm)    |  |
| 90              | QPSK       | 1       | 1         | 14.15                 | 14.23                    | 14.20                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dBm)    |  |
| 80              | QPSK       | 1       | 1         | 14.19                 | 14.23                    | 14.22                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518998                   | 529996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | (dBm)               | (dBm)    |  |
| 70              | QPSK       | 1       | 1         | 14.14                 | 14.21                    | 14.24                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2521                  | 2592.99                  | 2659.99                | (dBm)               | (dBm)    |  |
| 60              | QPSK       | 1       | 1         | 14.13                 | 14.18                    | 14.21                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518998                   | 532996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dBm)    |  |
| 50              | QPSK       | 1       | 1         | 14.10                 | 14.21                    | 14.23                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dBm)    |  |
| 40              | QPSK       | 1       | 1         | 14.15                 | 14.19                    | 14.24                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518998                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dBm)    |  |
| 30              | QPSK       | 1       | 1         | 14.21                 | 14.19                    | 14.24                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518998                   | 535996                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dBm)    |  |
| 20              | QPSK       | 1       | 1         | 14.21                 | 14.25                    | 14.23                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518998                   | 536496                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | (dBm)               | (dBm)    |  |
| 15              | QPSK       | 1       | 1         | 14.21                 | 14.16                    | 14.15                  | 15.5                | 0.0      |  |
| Channel         |            |         |           | 500202                | 518998                   | 537000                 | Tune-up limit (dBm) | MPR      |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | (dBm)               | (dBm)    |  |
| 10              | QPSK       | 1       | 1         | 14.19                 | 14.19                    | 14.20                  | 15.5                | 0.0      |  |

| FCC_n41 HPUE_Ant 6 |            |         |           |                             |                                |                              |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. (MHz) | Power Middle Ch. / Freq. (MHz) | Power High Ch. / Freq. (MHz) | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 5060.02                     | 5189.98                        | 5290.00                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2556.01                     | 2592.99                        | 2640                         |                     |          |  |
| 100                | P12 BPSK   | 1       | 1         | 14.22                       | 14.24                          | 14.22                        |                     |          |  |
| 100                | P12 BPSK   | 1       | 137       | 14.20                       | 14.23                          | 14.23                        | 15.5                | 0.0      |  |
| 100                | P12 BPSK   | 1       | 271       | 14.21                       | 14.24                          | 14.19                        |                     |          |  |
| 100                | P12 BPSK   | 135     | 0         | 14.26                       | 14.24                          | 14.20                        | 15.5                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 69        | 14.24                       | 14.19                          | 14.18                        | 15.5                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 138       | 14.26                       | 14.21                          | 14.10                        | 15.5                | 0.0      |  |
| 100                | P12 BPSK   | 270     | 0         | 14.25                       | 14.23                          | 14.21                        | 15.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 14.24                       | 14.27                          | 14.26                        |                     |          |  |
| 100                | QPSK       | 1       | 137       | 14.20                       | 14.18                          | 14.25                        | 15.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 14.17                       | 14.21                          | 14.19                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.16                       | 14.23                          | 14.21                        |                     |          |  |
| 100                | QPSK       | 135     | 69        | 14.22                       | 14.25                          | 14.21                        | 15.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 14.20                       | 14.24                          | 14.22                        |                     |          |  |
| 100                | QPSK       | 270     | 0         | 14.16                       | 14.22                          | 14.21                        | 15.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 14.21                       | 14.21                          | 14.20                        | 15.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.25                       | 14.22                          | 14.12                        | 15.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 14.25                       | 14.16                          | 14.19                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5060.00                     | 5189.98                        | 5299.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 14.15                       | 14.25                          | 14.20                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5074.04                     | 5189.98                        | 5299.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2536.12                     | 2592.99                        | 2640.99                      |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 14.19                       | 14.23                          | 14.20                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5083.00                     | 5189.98                        | 5310.00                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 14.14                       | 14.21                          | 14.24                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5092.00                     | 5189.98                        | 5319.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2526.00                     | 2592.99                        | 2649.98                      |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 14.13                       | 14.18                          | 14.21                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5040.04                     | 5189.98                        | 5299.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2512.12                     | 2592.99                        | 2604.99                      |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 14.18                       | 14.21                          | 14.21                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5032.02                     | 5189.98                        | 5340.00                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 14.15                       | 14.19                          | 14.24                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5026.00                     | 5189.98                        | 5299.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 14.24                       | 14.19                          | 14.14                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5012.04                     | 5189.98                        | 5359.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2506.12                     | 2592.99                        | 2679.99                      |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 14.21                       | 14.24                          | 14.21                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5000.00                     | 5189.98                        | 5364.98                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2503.5                      | 2592.99                        | 2662.48                      |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 14.21                       | 14.16                          | 14.15                        | 15.5                | 0.0      |  |
| Channel            |            |         |           | 5000.00                     | 5189.98                        | 5370.00                      |                     |          |  |
| Frequency (MHz)    |            |         |           | 2501.01                     | 2592.99                        | 2665                         |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 14.19                       | 14.19                          | 14.20                        | 15.5                | 0.0      |  |



| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 1         | 20.78                 | 21.05                    | 20.77                  |                     |          |  |
| 100             | Pi/2 BPSK  | 1       | 137       | 20.81                 | 20.97                    | 20.67                  | 22.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 1       | 271       | 20.82                 | 21.06                    | 20.75                  |                     |          |  |
| 100             | Pi/2 BPSK  | 135     | 0         | 20.70                 | 21.05                    | 20.77                  | 22.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 69        | 20.78                 | 20.97                    | 20.70                  | 22.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 135     | 138       | 20.83                 | 21.06                    | 20.72                  | 22.0                | 0.0      |  |
| 100             | Pi/2 BPSK  | 270     | 0         | 20.84                 | 21.06                    | 20.75                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 20.85                 | 21.12                    | 20.75                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 20.73                 | 21.09                    | 20.73                  | 22.0                | 0.0      |  |
| 100             | QPSK       | 1       | 271       | 20.84                 | 20.99                    | 20.71                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 20.74                 | 21.04                    | 20.68                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 20.80                 | 21.11                    | 20.78                  | 22.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 20.78                 | 20.98                    | 20.71                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 20.71                 | 21.05                    | 20.78                  | 22.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 20.75                 | 21.05                    | 20.75                  | 22.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 20.74                 | 21.06                    | 20.64                  | 22.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 0.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 80              | QPSK       | 1       | 1         | 20.83                 | 21.03                    | 20.64                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 80              | QPSK       | 1       | 1         | 20.84                 | 21.01                    | 20.71                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 70              | QPSK       | 1       | 1         | 20.82                 | 21.04                    | 20.67                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 60              | QPSK       | 1       | 1         | 20.74                 | 21.02                    | 20.66                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 50              | QPSK       | 1       | 1         | 20.81                 | 20.99                    | 20.69                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 40              | QPSK       | 1       | 1         | 20.78                 | 20.98                    | 20.72                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 20.77                 | 20.99                    | 20.76                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.76                 | 21.05                    | 20.71                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.75                 | 21.08                    | 20.68                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.72                 | 21.05                    | 20.67                  | 22.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 100                 | Pi/2 BPSK  | 1       | 1         | 20.78                 | 21.05                    | 20.77                  |                     |          |  |
| 100                 | Pi/2 BPSK  | 1       | 137       | 20.81                 | 20.97                    | 20.67                  | 22.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 1       | 271       | 20.82                 | 21.06                    | 20.75                  |                     |          |  |
| 100                 | Pi/2 BPSK  | 135     | 0         | 20.70                 | 21.05                    | 20.77                  | 22.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 135     | 69        | 20.78                 | 20.97                    | 20.70                  | 22.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 135     | 138       | 20.83                 | 21.06                    | 20.72                  | 22.0                | 0.0      |  |
| 100                 | Pi/2 BPSK  | 270     | 0         | 20.84                 | 21.06                    | 20.75                  |                     |          |  |
| 100                 | QPSK       | 1       | 1         | 20.85                 | 21.12                    | 20.75                  |                     |          |  |
| 100                 | QPSK       | 1       | 137       | 20.73                 | 21.09                    | 20.73                  | 22.0                | 0.0      |  |
| 100                 | QPSK       | 1       | 271       | 20.84                 | 20.98                    | 20.71                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 20.74                 | 21.04                    | 20.68                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 20.80                 | 21.11                    | 20.78                  | 22.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 138       | 20.78                 | 20.98                    | 20.71                  |                     |          |  |
| 100                 | QPSK       | 270     | 0         | 20.71                 | 21.05                    | 20.78                  | 22.0                | 0.0      |  |
| 100                 | 16QAM      | 1       | 1         | 20.75                 | 21.05                    | 20.75                  | 22.0                | 0.0      |  |
| 100                 | 64QAM      | 1       | 1         | 20.74                 | 21.06                    | 20.64                  | 22.0                | 0.0      |  |
| 100                 | 256QAM     | 1       | 1         | 20.33                 | 20.41                    | 20.15                  | 21.5                | 0.5      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 90                  | QPSK       | 1       | 1         | 20.83                 | 21.03                    | 20.64                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 80                  | QPSK       | 1       | 1         | 20.84                 | 21.01                    | 20.71                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 70                  | QPSK       | 1       | 1         | 20.82                 | 21.04                    | 20.67                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 60                  | QPSK       | 1       | 1         | 20.74                 | 21.02                    | 20.66                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 50                  | QPSK       | 1       | 1         | 20.81                 | 20.99                    | 20.69                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 40                  | QPSK       | 1       | 1         | 20.78                 | 20.98                    | 20.72                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 30                  | QPSK       | 1       | 1         | 20.77                 | 20.99                    | 20.76                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 20                  | QPSK       | 1       | 1         | 20.76                 | 21.05                    | 20.71                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 15                  | QPSK       | 1       | 1         | 20.75                 | 21.08                    | 20.68                  | 22.0                | 0.0      |  |
| Channel             |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)     |            |         |           |                       |                          |                        |                     |          |  |
| 10                  | QPSK       | 1       | 1         | 20.72                 | 21.05                    | 20.67                  | 22.0                | 0.0      |  |

| Part96_n48_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |
| 40               | Pi/2 BPSK  | 1       | 1         | 3670                  | 3624.99                  | 3679.98                |                     |          |  |
| 40               | Pi/2 BPSK  | 1       | 53        | 12.14                 | 12.20                    | 12.04                  |                     |          |  |
| 40               | Pi/2 BPSK  | 1       | 53        | 12.19                 | 12.18                    | 12.18                  | 13.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 1       | 104       | 12.16                 | 12.19                    | 12.12                  |                     |          |  |
| 40               | Pi/2 BPSK  | 50      | 0         | 12.10                 | 12.17                    | 12.05                  | 13.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 50      | 28        | 12.21                 | 12.16                    | 12.09                  | 13.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 50      | 56        | 12.19                 | 12.18                    | 12.15                  | 13.0                | 0.0      |  |
| 40               | Pi/2 BPSK  | 100     | 0         | 12.16                 | 12.18                    | 12.12                  | 13.0                | 0.0      |  |
| 40               | QPSK       | 1       | 1         | 12.21                 | 12.22                    | 12.13                  |                     |          |  |
| 40               | QPSK       | 1       | 53        | 12.14                 | 12.17                    | 12.15                  | 13.0                | 0.0      |  |
| 40               | QPSK       | 1       | 104       | 12.15                 | 12.20                    | 12.05                  |                     |          |  |
| 40               | QPSK       | 50      | 0         | 12.13                 | 12.15                    | 12.17                  |                     |          |  |
| 40               | QPSK       | 50      | 28        | 12.20                 | 12.21                    | 12.13                  | 13.0                | 0.0      |  |
| 40               | QPSK       | 50      | 56        | 12.18                 | 12.16                    | 12.16                  |                     |          |  |
| 40               | QPSK       | 100     | 0         | 12.15                 | 12.20                    | 12.19                  | 13.0                | 0.0      |  |
| 40               | 16QAM      | 1       | 1         | 12.12                 | 12.20                    | 12.16                  | 13.0                | 0.0      |  |
| 40               | 64QAM      | 1       | 1         | 12.21                 | 12.17                    | 12.05                  | 13.0                | 0.0      |  |
| 40               | 256QAM     | 1       | 1         | 12.21                 | 12.20                    | 12.10                  | 13.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |
| 30               | QPSK       | 1       | 1         | 3566.60               | 3624.99                  | 3684.99                |                     |          |  |
| 30               | QPSK       | 1       | 1         | 12.19                 | 12.11                    | 12.12                  | 13.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |
| 20               | QPSK       | 1       | 1         | 3560.01               | 3624.99                  | 3690                   |                     |          |  |
| 20               | QPSK       | 1       | 1         | 12.18                 | 12.12                    | 12.11                  | 13.0                | 0.0      |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |
| 10               | QPSK       | 1       | 1         | 637000                | 641666                   | 646332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10               | QPSK       | 1       | 1         | 3624.99               | 3624.99                  | 3624.99                |                     |          |  |
| 10               | QPSK       | 1       | 1         | 12.13                 | 12.11                    | 12.12                  | 13.0                | 0.0      |  |

| Part96_n48_Ant 7 |            |         |           |                             |                                |                              |                        |             |  |
|------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel          |            |         |           | 63800                       | 64166                          | 64532                        | 14.5                   |             |  |
| Frequency (MHz)  |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |  |
| 40               | PI2 BPSK   | 1       | 1         | 13.14                       | 13.09                          | 12.89                        | 14.5                   | 0.0         |  |
| 40               | PI2 BPSK   | 1       | 53        | 13.15                       | 13.06                          | 12.73                        |                        |             |  |
| 40               | PI2 BPSK   | 1       | 104       | 13.16                       | 13.06                          | 12.75                        |                        |             |  |
| 40               | PI2 BPSK   | 56      | 0         | 13.20                       | 13.03                          | 12.92                        | 14.5                   | 0.0         |  |
| 40               | PI2 BPSK   | 56      | 28        | 13.19                       | 13.11                          | 12.82                        | 14.5                   | 0.0         |  |
| 40               | PI2 BPSK   | 56      | 56        | 13.19                       | 13.04                          | 13.03                        | 14.5                   | 0.0         |  |
| 40               | PI2 BPSK   | 100     | 0         | 13.17                       | 13.10                          | 12.77                        |                        |             |  |
| 40               | QPSK       | 1       | 1         | 13.24                       | 13.13                          | 13.01                        |                        |             |  |
| 40               | QPSK       | 1       | 53        | 13.17                       | 13.00                          | 12.86                        | 14.5                   | 0.0         |  |
| 40               | QPSK       | 1       | 104       | 13.16                       | 13.10                          | 12.88                        |                        |             |  |
| 40               | QPSK       | 56      | 0         | 13.20                       | 13.05                          | 12.73                        |                        |             |  |
| 40               | QPSK       | 56      | 28        | 13.22                       | 13.06                          | 12.85                        | 14.5                   | 0.0         |  |
| 40               | QPSK       | 56      | 56        | 13.20                       | 13.00                          | 12.74                        |                        |             |  |
| 40               | QPSK       | 100     | 0         | 13.15                       | 13.11                          | 12.82                        |                        |             |  |
| 40               | 16QAM      | 1       | 1         | 13.21                       | 13.10                          | 12.90                        | 14.5                   | 0.0         |  |
| 40               | 64QAM      | 1       | 1         | 13.16                       | 13.02                          | 12.86                        | 14.5                   | 0.0         |  |
| 40               | 256QAM     | 1       | 1         | 13.18                       | 13.13                          | 12.92                        | 14.5                   | 0.0         |  |
| Channel          |            |         |           | 637668                      | 641666                         | 645668                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)  |            |         |           | 3565.02                     | 3624.99                        | 3684.98                      | (dBm)                  | (dB)        |  |
| 30               | QPSK       | 1       | 1         | 13.19                       | 13.04                          | 12.92                        | 14.5                   | 0.0         |  |
| Channel          |            |         |           | 637334                      | 641668                         | 646000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)  |            |         |           | 3560.01                     | 3624.99                        | 3690                         | (dBm)                  | (dB)        |  |
| 20               | QPSK       | 1       | 1         | 13.20                       | 13.08                          | 12.92                        | 14.5                   | 0.0         |  |
| Channel          |            |         |           | 637000                      | 641668                         | 646332                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)  |            |         |           | 3555                        | 3624.99                        | 3694.98                      | (dBm)                  | (dB)        |  |
| 10               | QPSK       | 1       | 1         | 13.19                       | 13.07                          | 12.92                        | 14.5                   | 0.0         |  |



| Part96_n48_Ant 10 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |     |
| 40                | Pl2 BPSK   | 1       | 1         | 9.55                  | 9.54                     | 9.57                   |                     |          |     |
| 40                | Pl2 BPSK   | 1       | 53        | 9.58                  | 9.54                     | 9.63                   |                     | 10.5     | 0.0 |
| 40                | Pl2 BPSK   | 1       | 104       | 9.58                  | 9.59                     | 9.62                   |                     |          |     |
| 40                | Pl2 BPSK   | 50      | 0         | 9.64                  | 9.59                     | 9.49                   |                     | 10.5     | 0.0 |
| 40                | Pl2 BPSK   | 50      | 28        | 9.56                  | 9.61                     | 9.57                   |                     | 10.5     | 0.0 |
| 40                | Pl2 BPSK   | 50      | 56        | 9.58                  | 9.58                     | 9.53                   |                     | 10.5     | 0.0 |
| 40                | Pl2 BPSK   | 100     | 0         | 9.61                  | 9.64                     | 9.52                   |                     |          |     |
| 40                | QPSK       | 1       | 1         | 9.57                  | 9.57                     | 9.55                   |                     |          |     |
| 40                | QPSK       | 1       | 53        | 9.55                  | 9.60                     | 9.42                   |                     | 10.5     | 0.0 |
| 40                | QPSK       | 1       | 104       | 9.54                  | 9.54                     | 9.43                   |                     |          |     |
| 40                | QPSK       | 50      | 0         | 9.53                  | 9.59                     | 9.52                   |                     |          |     |
| 40                | QPSK       | 50      | 28        | 9.55                  | 9.53                     | 9.52                   |                     | 10.5     | 0.0 |
| 40                | QPSK       | 50      | 56        | 9.51                  | 9.57                     | 9.51                   |                     |          |     |
| 40                | QPSK       | 100     | 0         | 9.56                  | 9.58                     | 9.51                   |                     | 10.5     | 0.0 |
| 40                | 16QAM      | 1       | 1         | 9.62                  | 9.61                     | 9.48                   |                     | 10.5     | 0.0 |
| 40                | 64QAM      | 1       | 1         | 9.50                  | 9.53                     | 9.45                   |                     | 10.5     | 0.0 |
| 40                | 256QAM     | 1       | 1         | 9.62                  | 9.56                     | 9.57                   |                     | 10.5     | 0.0 |
| Channel           |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3562.02               | 3624.99                  | 3684.99                |                     |          |     |
| 30                | QPSK       | 1       | 1         | 9.47                  | 9.13                     | 9.13                   |                     | 10.5     | 0.0 |
| Channel           |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |          |     |
| 20                | QPSK       | 1       | 1         | 9.54                  | 9.59                     | 9.57                   |                     | 10.5     | 0.0 |
| Channel           |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 3565                  | 3624.99                  | 3694.98                | Tune-up limit (dBm) | MPR (dB) |     |
| 10                | QPSK       | 1       | 1         | 9.52                  | 9.65                     | 9.60                   |                     | 10.5     | 0.0 |

| Part96_n48_Ant 8 |            |     |           |                       |                          |                        |                     |          |     |
|------------------|------------|-----|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]         | Modulation | RB  | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel          |            |     |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)  |            |     |           | 637000                | 641666                   | 645332                 |                     |          |     |
| Frequency (MHz)  |            |     |           | 3570                  | 3624.99                  | 3679.98                |                     |          |     |
| 40               | Pl2 BPSK   | 1   | 1         | 13.17                 | 13.18                    | 13.04                  |                     |          |     |
| 40               | Pl2 BPSK   | 1   | 53        | 13.09                 | 13.18                    | 12.88                  | 14.5                |          | 0.0 |
| 40               | Pl2 BPSK   | 1   | 104       | 13.10                 | 13.12                    | 12.96                  |                     |          |     |
| 40               | Pl2 BPSK   | 50  | 0         | 13.08                 | 13.15                    | 12.83                  | 14.5                | 0.0      |     |
| 40               | Pl2 BPSK   | 50  | 28        | 13.09                 | 13.15                    | 12.79                  | 14.5                |          | 0.0 |
| 40               | Pl2 BPSK   | 50  | 56        | 13.14                 | 13.15                    | 12.78                  | 14.5                | 0.0      |     |
| 40               | Pl2 BPSK   | 100 | 0         | 13.13                 | 13.16                    | 12.88                  |                     |          |     |
| 40               | QPSK       | 1   | 1         | 13.17                 | 13.20                    | 13.05                  |                     |          |     |
| 40               | QPSK       | 1   | 53        | 13.08                 | 13.15                    | 12.86                  | 14.5                | 0.0      |     |
| 40               | QPSK       | 1   | 104       | 13.14                 | 13.13                    | 13.03                  |                     |          |     |
| 40               | QPSK       | 50  | 0         | 13.11                 | 13.16                    | 12.88                  |                     |          |     |
| 40               | QPSK       | 50  | 28        | 13.16                 | 13.16                    | 13.02                  | 14.5                | 0.0      |     |
| 40               | QPSK       | 50  | 56        | 13.15                 | 13.10                    | 13.00                  |                     |          |     |
| 40               | QPSK       | 100 | 0         | 13.10                 | 13.12                    | 12.93                  | 14.5                | 0.0      |     |
| 40               | 16QAM      | 1   | 1         | 13.11                 | 13.16                    | 12.95                  | 14.5                | 0.0      |     |
| 40               | 64QAM      | 1   | 1         | 13.14                 | 13.16                    | 12.87                  | 14.5                | 0.0      |     |
| 40               | 256QAM     | 1   | 1         | 13.13                 | 13.14                    | 12.93                  | 14.5                | 0.0      |     |
| Channel          |            |     |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)  |            |     |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |     |           | 3562.02               | 3624.99                  | 3684.99                |                     |          |     |
| 30               | QPSK       | 1   | 1         | 13.07                 | 13.15                    | 13.03                  | 14.5                |          | 0.0 |
| Channel          |            |     |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)  |            |     |           | 637234                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |     |           | 3560.01               | 3624.99                  | 3690                   |                     |          |     |
| 20               | QPSK       | 1   | 1         | 13.10                 | 13.12                    | 12.99                  | 14.5                | 0.0      |     |
| Channel          |            |     |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)  |            |     |           | 637000                | 641666                   | 645332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)  |            |     |           | 3565                  | 3624.99                  | 3694.98                | 14.5                |          | 0.0 |
| 10               | QPSK       | 1   | 1         | 13.05                 | 13.14                    | 12.95                  | 14.5                | 0.0      |     |

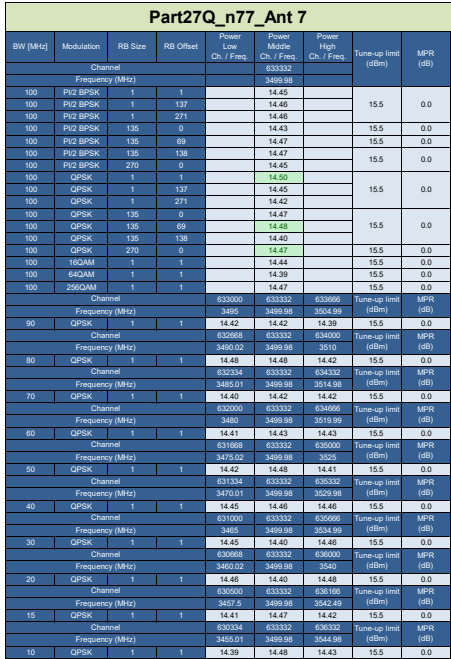
| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3569.98               | 633332                   | 633666                 |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 14.18                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 137       | 14.21                 |                          |                        | 15.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 271       | 14.20                 |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 14.20                 |                          |                        | 15.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 14.23                 |                          |                        | 15.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 14.11                 |                          |                        | 15.0                | 0.0      |  |
| 100               | Pl2 BPSK   | 270     | 0         | 14.21                 |                          |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 14.27                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 14.15                 |                          |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 14.20                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 14.22                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 14.25                 |                          |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 14.24                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 14.23                 |                          |                        | 15.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 14.10                 |                          |                        | 15.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 14.21                 |                          |                        | 15.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 14.08                 |                          |                        | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 14.23                 | 14.19                    | 14.24                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3496.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 14.19                 | 14.20                    | 14.16                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632504                | 633332                   | 634336                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3486.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 14.18                 | 14.17                    | 14.17                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3489.98                  | 3519.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 14.19                 | 14.18                    | 14.16                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3489.98                  | 3505                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 14.21                 | 14.18                    | 14.16                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3489.98                  | 3509.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 14.17                 | 14.25                    | 14.23                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3489.98                  | 3504.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 14.25                 | 14.17                    | 14.16                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3489.98                  | 3500                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 14.22                 | 14.23                    | 14.19                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3489.98                  | 3504.98                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 14.18                 | 14.18                    | 14.18                  | 15.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3489.98                  | 3504.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 14.18                 | 14.17                    | 14.25                  | 15.0                | 0.0      |  |



| Part270_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
|                   |            |         |           | 37500                 | 38400                    | 39300                  |                     |          |  |  |
| 100               | Pi/2 BPSK  | 1       | 1         | 14.30                 | 14.25                    | 14.23                  |                     |          |  |  |
| 100               | Pi/2 BPSK  | 1       | 137       | 14.31                 | 14.30                    | 14.32                  | 15.0                | 0.0      |  |  |
| 100               | Pi/2 BPSK  | 1       | 271       | 14.25                 | 14.29                    | 14.29                  |                     |          |  |  |
| 100               | Pi/2 BPSK  | 135     | 0         | 14.29                 | 14.25                    | 14.22                  | 15.0                | 0.0      |  |  |
| 100               | Pi/2 BPSK  | 135     | 69        | 14.30                 | 14.28                    | 14.18                  | 15.0                | 0.0      |  |  |
| 100               | Pi/2 BPSK  | 135     | 138       | 14.24                 | 14.31                    | 14.15                  | 15.0                | 0.0      |  |  |
| 100               | Pi/2 BPSK  | 270     | 0         | 14.25                 | 14.30                    | 14.13                  |                     |          |  |  |
| 100               | QPSK       | 1       | 1         | 14.30                 | 14.34                    | 14.32                  |                     |          |  |  |
| 100               | QPSK       | 1       | 137       | 14.25                 | 14.27                    | 14.30                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 271       | 14.28                 | 14.31                    | 14.25                  |                     |          |  |  |
| 100               | QPSK       | 135     | 0         | 14.25                 | 14.31                    | 14.20                  |                     |          |  |  |
| 100               | QPSK       | 135     | 69        | 14.25                 | 14.33                    | 14.27                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 138       | 14.28                 | 14.29                    | 14.24                  |                     |          |  |  |
| 100               | QPSK       | 270     | 0         | 14.27                 | 14.31                    | 14.19                  | 15.0                | 0.0      |  |  |
| 100               | 16QAM      | 1       | 1         | 14.19                 | 14.25                    | 14.25                  | 15.0                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         | 14.20                 | 14.26                    | 14.18                  | 15.0                | 0.0      |  |  |
| 100               | 256QAM     | 1       | 1         | 14.31                 | 14.22                    | 14.22                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3840                     | 3924.98                | (dBm)               | (dB)     |  |  |
| 90                | QPSK       | 1       | 1         | 14.22                 | 14.26                    | 14.21                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                | (dBm)               | (dB)     |  |  |
| 80                | QPSK       | 1       | 1         | 14.26                 | 14.24                    | 14.30                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 650000                | 650000                   | 650000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | (dBm)               | (dB)     |  |  |
| 70                | QPSK       | 1       | 1         | 14.20                 | 14.32                    | 14.23                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3724.02               | 3840                     | 3949.98                | (dBm)               | (dB)     |  |  |
| 60                | QPSK       | 1       | 1         | 14.20                 | 14.23                    | 14.26                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                | (dBm)               | (dB)     |  |  |
| 50                | QPSK       | 1       | 1         | 14.23                 | 14.30                    | 14.29                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | (dBm)               | (dB)     |  |  |
| 40                | QPSK       | 1       | 1         | 14.28                 | 14.29                    | 14.22                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3954.98                | (dBm)               | (dB)     |  |  |
| 30                | QPSK       | 1       | 1         | 14.25                 | 14.23                    | 14.26                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3713.01               | 3840                     | 3956.99                | (dBm)               | (dB)     |  |  |
| 20                | QPSK       | 1       | 1         | 14.20                 | 14.28                    | 14.30                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | (dBm)               | (dB)     |  |  |
| 15                | QPSK       | 1       | 1         | 14.20                 | 14.25                    | 14.27                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR      |  |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   | (dBm)               | (dB)     |  |  |
| 10                | QPSK       | 1       | 1         | 14.24                 | 14.25                    | 14.26                  | 15.0                | 0.0      |  |  |

| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3400.00               | 633332                   | 3499.98                |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 1         |                       | 14.18                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 1       | 137       |                       | 14.21                    |                        | 15.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 1       | 271       |                       | 14.20                    |                        |                     |          |  |
| 100                    | Pi/2 BPSK  | 135     | 0         |                       | 14.20                    |                        | 15.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 69        |                       | 14.23                    |                        | 15.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 135     | 138       |                       | 14.11                    |                        | 15.0                | 0.0      |  |
| 100                    | Pi/2 BPSK  | 270     | 0         |                       | 14.21                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 15.27                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 14.15                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 14.21                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 14.22                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 15.25                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 14.24                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 14.23                    |                        | 15.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 14.10                    |                        | 15.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 14.21                    |                        | 15.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 14.08                    |                        | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3400                  | 3499.98                  | 3500.02                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 14.23                 | 14.19                    | 14.24                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3400.02               | 3499.98                  | 3500                   | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 14.19                 | 14.20                    | 14.16                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632334                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3405.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 14.18                 | 14.17                    | 14.17                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3400                  | 3499.98                  | 3518.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 14.19                 | 14.18                    | 14.16                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 14.21                 | 14.18                    | 14.16                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 14.17                 | 14.25                    | 14.23                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 14.25                 | 14.17                    | 14.16                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 14.22                 | 14.23                    | 14.19                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630300                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3455.5                | 3499.98                  | 3542.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 14.16                 | 14.18                    | 14.18                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630000                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR      |  |
|                        |            |         |           | 3450.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 14.18                 | 14.17                    | 14.25                  | 15.0                | 0.0      |  |

| Part270_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |            |         |           | 65000                 | 65000                    | 66000                  |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                    | Pi/2 BPSK  | 1       | 1         | 14.30                 | 14.25                    | 14.23                  |                     |          |  |  |
| 100                    | Pi/2 BPSK  | 1       | 137       | 14.31                 | 14.30                    | 14.32                  | 15.0                | 0.0      |  |  |
| 100                    | Pi/2 BPSK  | 1       | 271       | 14.25                 | 14.29                    | 14.29                  |                     |          |  |  |
| 100                    | Pi/2 BPSK  | 135     | 0         | 14.29                 | 14.25                    | 14.22                  | 15.0                | 0.0      |  |  |
| 100                    | Pi/2 BPSK  | 135     | 69        | 14.30                 | 14.28                    | 14.18                  | 15.0                | 0.0      |  |  |
| 100                    | Pi/2 BPSK  | 135     | 138       | 14.24                 | 14.31                    | 14.15                  | 15.0                | 0.0      |  |  |
| 100                    | Pi/2 BPSK  | 270     | 0         | 14.25                 | 14.30                    | 14.13                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 1         | 14.30                 | 14.34                    | 14.32                  |                     |          |  |  |
| 100                    | QPSK       | 1       | 137       | 14.25                 | 14.27                    | 14.30                  | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 1       | 271       | 14.28                 | 14.31                    | 14.25                  |                     |          |  |  |
| 100                    | QPSK       | 135     | 0         | 14.29                 | 14.25                    | 14.22                  | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 69        | 14.30                 | 14.28                    | 14.18                  | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 135     | 138       | 14.24                 | 14.31                    | 14.15                  | 15.0                | 0.0      |  |  |
| 100                    | QPSK       | 270     | 0         | 14.27                 | 14.31                    | 14.19                  | 15.0                | 0.0      |  |  |
| 100                    | 16QAM      | 1       | 1         | 14.19                 | 14.25                    | 14.25                  | 15.0                | 0.0      |  |  |
| 100                    | 64QAM      | 1       | 1         | 14.20                 | 14.26                    | 14.18                  | 15.0                | 0.0      |  |  |
| 100                    | 256QAM     | 1       | 1         | 14.31                 | 14.22                    | 14.22                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 648334                | 65000                    | 662632                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3240.16               | 3440                     | 3645.68                |                     |          |  |  |
| 90                     | QPSK       | 1       | 1         | 14.22                 | 14.26                    | 14.21                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 648334                | 65000                    | 662666                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3240.16               | 3440                     | 3645.69                |                     |          |  |  |
| 80                     | QPSK       | 1       | 1         | 14.26                 | 14.24                    | 14.30                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 648000                | 65000                    | 663000                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                     | QPSK       | 1       | 1         | 14.30                 | 14.30                    | 14.33                  |                     |          |  |  |
| Channel                |            |         |           | 648000                | 65000                    | 663332                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |  |
| 60                     | QPSK       | 1       | 1         | 14.20                 | 14.21                    | 14.28                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 648333                | 65000                    | 663058                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3725.91               | 3840                     | 3955.99                |                     |          |  |  |
| 50                     | QPSK       | 1       | 1         | 14.23                 | 14.30                    | 14.29                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 648000                | 65000                    | 664000                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                     | QPSK       | 1       | 1         | 14.28                 | 14.28                    | 14.22                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 647698                | 65000                    | 664532                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3954.98                |                     |          |  |  |
| 30                     | QPSK       | 1       | 1         | 14.25                 | 14.23                    | 14.26                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 647334                | 65000                    | 664666                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |  |
| 20                     | QPSK       | 1       | 1         | 14.20                 | 14.28                    | 14.30                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 647333                | 65000                    | 664832                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3707.50               | 3840                     | 3972.48                |                     |          |  |  |
| 15                     | QPSK       | 1       | 1         | 14.20                 | 14.25                    | 14.27                  | 15.0                | 0.0      |  |  |
| Channel                |            |         |           | 647000                | 65000                    | 665000                 |                     |          |  |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                     | QPSK       | 1       | 1         | 14.24                 | 14.25                    | 14.28                  | 15.0                | 0.0      |  |  |



| Part270 n77_Ant 7 |                 |         |           |                      |                       |                     |                     |          |  |
|-------------------|-----------------|---------|-----------|----------------------|-----------------------|---------------------|---------------------|----------|--|
| BW [MHz]          | Modulation      | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Power / Freq. | Time-up limit (dBm) | MPR (dB) |  |
|                   | Channel         |         |           | 665000               | 665000                | 662000              |                     |          |  |
|                   | Frequency (MHz) |         |           | 3750                 | 3950                  | 3900                |                     |          |  |
| 100               | PQ2 BPSK        | 1       | 1         | 14.44                | 14.47                 | 14.46               |                     |          |  |
| 100               | PQ2 BPSK        | 1       | 137       | 14.49                | 14.48                 | 14.47               | 15.5                | 0.0      |  |
| 100               | PQ2 BPSK        | 1       | 271       | 14.46                | 14.45                 | 14.43               |                     |          |  |
| 100               | PQ2 BPSK        | 135     | 0         | 15.50                | 14.43                 | 14.47               | 15.5                | 0.0      |  |
| 100               | PQ2 BPSK        | 135     | 69        | 14.48                | 14.47                 | 14.49               | 15.5                | 0.0      |  |
| 100               | PQ2 BPSK        | 135     | 138       | 14.48                | 14.49                 | 14.44               |                     |          |  |
| 100               | PQ2 BPSK        | 270     | 0         | 14.46                | 14.46                 | 14.52               |                     |          |  |
| 100               | QPSK            | 1       | 1         | 15.49                | 15.53                 | 15.52               |                     |          |  |
| 100               | QPSK            | 1       | 137       | 14.41                | 14.45                 | 14.45               | 15.5                | 0.0      |  |
| 100               | QPSK            | 1       | 271       | 14.44                | 14.48                 | 14.46               |                     |          |  |
| 100               | QPSK            | 135     | 0         | 15.46                | 14.46                 | 14.47               | 15.5                | 0.0      |  |
| 100               | QPSK            | 135     | 69        | 15.48                | 14.49                 | 15.47               | 15.5                | 0.0      |  |
| 100               | QPSK            | 135     | 136       | 14.46                | 14.45                 | 14.25               |                     |          |  |
| 100               | QPSK            | 270     | 0         | 14.41                | 14.44                 | 14.43               | 15.5                | 0.0      |  |
| 100               | 16QAM           | 1       | 1         | 14.46                | 14.44                 | 14.63               | 15.5                | 0.0      |  |
| 100               | 64QAM           | 1       | 1         | 14.49                | 14.50                 | 14.47               | 15.5                | 0.0      |  |
| 100               | 256QAM          | 1       | 1         | 14.44                | 14.49                 | 14.49               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 669868               | 665000                | 662032              |                     |          |  |
|                   | Frequency (MHz) |         |           | 3940                 | 3948                  | 3948                |                     |          |  |
| 90                | QPSK            | 1       | 1         | 14.40                | 14.45                 | 14.45               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 669334               | 665000                | 665006              |                     |          |  |
|                   | Frequency (MHz) |         |           | 370101               | 3940                  | 3938.99             |                     |          |  |
| 80                | QPSK            | 1       | 1         | 14.39                | 14.43                 | 14.43               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 670000               | 665000                | 665000              |                     |          |  |
|                   | Frequency (MHz) |         |           | 3935                 | 3940                  | 3945                |                     |          |  |
| 70                | QPSK            | 1       | 1         | 14.43                | 14.40                 | 14.39               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 670562               | 665000                | 665332              |                     |          |  |
|                   | Frequency (MHz) |         |           | 3949.02              | 3940                  | 3949.98             |                     |          |  |
| 60                | QPSK            | 1       | 1         | 14.39                | 14.45                 | 14.40               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 669334               | 665000                | 665006              |                     |          |  |
|                   | Frequency (MHz) |         |           | 370561               | 3940                  | 3954.99             |                     |          |  |
| 50                | QPSK            | 1       | 1         | 14.46                | 14.51                 | 14.44               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 664800               | 665000                | 664000              |                     |          |  |
|                   | Frequency (MHz) |         |           | 37129                | 3940                  | 3940                |                     |          |  |
| 40                | QPSK            | 1       | 1         | 14.46                | 14.45                 | 14.37               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 647668               | 665000                | 664532              |                     |          |  |
|                   | Frequency (MHz) |         |           | 371512               | 3940                  | 3954.98             |                     |          |  |
| 30                | QPSK            | 1       | 1         | 14.40                | 14.51                 | 14.51               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 647334               | 665000                | 664968              |                     |          |  |
|                   | Frequency (MHz) |         |           | 3710101              | 3940                  | 3969.99             |                     |          |  |
| 20                | QPSK            | 1       | 1         | 14.46                | 14.50                 | 14.37               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 671234               | 665000                | 671532              |                     |          |  |
|                   | Frequency (MHz) |         |           | 370752               | 3940                  | 3972.48             |                     |          |  |
| 15                | QPSK            | 1       | 1         | 14.41                | 14.49                 | 14.42               | 15.5                | 0.0      |  |
|                   | Channel         |         |           | 667000               | 665000                | 665000              |                     |          |  |
|                   | Frequency (MHz) |         |           | 37105                | 3940                  | 3972                |                     |          |  |
| 10                | QPSK            | 1       | 1         | 14.43                | 14.50                 | 14.42               | 15.5                | 0.0      |  |

| Part27Q_n77 HPUE Ant 7  |            |                         |           |                      |                      |                       |                    |          |  |
|-------------------------|------------|-------------------------|-----------|----------------------|----------------------|-----------------------|--------------------|----------|--|
| BW (MHz)                | Modulation | RB Size                 | RB Offset | Power Low Ch / Freq. | Power Med Ch / Freq. | Power High Ch / Freq. | Turn-up time (dBm) | MPR (dB) |  |
|                         |            | Channel Frequency (MHz) |           |                      | 65332                | 65332                 |                    |          |  |
| 100                     | PSS2 BPSK  | 1                       | 1         | 14.45                |                      |                       |                    |          |  |
| 100                     | PSS2 BPSK  | 1                       | 137       | 14.46                |                      |                       | 15.5               | 0.0      |  |
| 100                     | PSS2 BPSK  | 1                       | 271       | 14.46                |                      |                       | 15.5               | 0.0      |  |
| 100                     | PSS2 BPSK  | 135                     | 9         | 14.43                |                      |                       | 15.5               | 0.0      |  |
| 100                     | PSS2 BPSK  | 135                     | 138       | 14.47                |                      |                       | 15.5               | 0.0      |  |
| 100                     | PSS2 BPSK  | 270                     | 1         | 14.46                |                      |                       | 15.5               | 0.0      |  |
| 100                     | QPSK       | 1                       | 1         | 14.50                |                      |                       |                    |          |  |
| 100                     | QPSK       | 1                       | 137       | 14.45                |                      |                       | 15.5               | 0.0      |  |
| 100                     | QPSK       | 1                       | 271       | 14.47                |                      |                       | 15.5               | 0.0      |  |
| 100                     | QPSK       | 135                     | 9         | 14.46                |                      |                       | 15.5               | 0.0      |  |
| 100                     | QPSK       | 135                     | 138       | 14.48                |                      |                       | 15.5               | 0.0      |  |
| 100                     | QPSK       | 270                     | 1         | 14.47                |                      |                       | 15.5               | 0.0      |  |
| 100                     | 16QAM      | 1                       | 1         | 14.44                |                      |                       | 15.5               | 0.0      |  |
| 100                     | 64QAM      | 1                       | 1         | 14.39                |                      |                       | 15.5               | 0.0      |  |
| 100                     | 256QAM     | 1                       | 1         | 14.37                |                      |                       | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65300                | 65332                | 65366                 | Turn-up time (dBm) | MPR (dB) |  |
| 50                      | QPSK       | 1                       | 1         | 14.42                | 14.42                | 14.39                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65368                | 65332                | 65400                 | Turn-up time (dBm) | MPR (dB) |  |
| 50                      | QPSK       | 1                       | 1         | 14.48                | 14.48                | 14.42                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65254                | 65332                | 65432                 | Turn-up time (dBm) | MPR (dB) |  |
| 70                      | QPSK       | 1                       | 1         | 14.40                | 14.40                | 14.42                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65305                | 65332                | 65366                 | Turn-up time (dBm) | MPR (dB) |  |
| 60                      | QPSK       | 1                       | 1         | 14.41                | 14.43                | 14.43                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65375                | 65332                | 65395                 | Turn-up time (dBm) | MPR (dB) |  |
| 50                      | QPSK       | 1                       | 1         | 14.42                | 14.48                | 14.41                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65334                | 65332                | 65332                 | Turn-up time (dBm) | MPR (dB) |  |
| 40                      | QPSK       | 1                       | 1         | 14.45                | 14.40                | 14.46                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65100                | 65352                | 65666                 | Turn-up time (dBm) | MPR (dB) |  |
| 30                      | QPSK       | 1                       | 1         | 14.45                | 14.40                | 14.46                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65368                | 65332                | 65398                 | Turn-up time (dBm) | MPR (dB) |  |
| 20                      | QPSK       | 1                       | 1         | 14.46                | 14.49                | 14.48                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65350                | 65332                | 65363                 | Turn-up time (dBm) | MPR (dB) |  |
| 15                      | QPSK       | 1                       | 1         | 14.41                | 14.47                | 14.42                 | 15.5               | 0.0      |  |
| Channel Frequency (MHz) |            |                         |           | 65254                | 65332                | 65392                 | Turn-up time (dBm) | MPR (dB) |  |
| 10                      | QPSK       | 1                       | 1         | 14.39                | 14.48                | 14.43                 | 15.5               | 0.0      |  |

| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |     |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |     |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 14.44                 | 14.47                    | 14.46                  |                     |          |     |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 14.49                 | 14.46                    | 14.47                  | 15.5                | 0.0      |     |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 14.49                 | 14.45                    | 14.43                  |                     |          |     |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 14.50                 | 14.43                    | 14.47                  | 15.5                | 0.0      |     |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 14.48                 | 14.47                    | 14.49                  | 15.5                |          | 0.0 |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 14.48                 | 14.49                    | 14.44                  |                     |          |     |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 14.46                 | 14.46                    | 14.52                  | 15.5                |          | 0.0 |  |
| 100                    | QPSK       | 1       | 1         | 14.48                 | 14.53                    | 14.47                  |                     |          |     |  |
| 100                    | QPSK       | 1       | 137       | 14.41                 | 14.45                    | 14.45                  | 15.5                |          | 0.0 |  |
| 100                    | QPSK       | 1       | 271       | 14.44                 | 14.48                    | 14.46                  |                     |          |     |  |
| 100                    | QPSK       | 135     | 0         | 14.46                 | 14.46                    | 14.44                  |                     |          |     |  |
| 100                    | QPSK       | 135     | 69        | 14.46                 | 14.45                    | 14.47                  | 15.5                |          | 0.0 |  |
| 100                    | QPSK       | 135     | 138       | 14.46                 | 14.45                    | 14.25                  |                     |          |     |  |
| 100                    | QPSK       | 270     | 0         | 14.41                 | 14.44                    | 14.43                  | 15.5                |          | 0.0 |  |
| 100                    | 16QAM      | 1       | 1         | 14.46                 | 14.44                    | 14.43                  | 15.5                |          | 0.0 |  |
| 100                    | 64QAM      | 1       | 1         | 14.49                 | 14.50                    | 14.47                  | 15.5                |          | 0.0 |  |
| 100                    | 256QAM     | 1       | 1         | 14.44                 | 14.49                    | 14.49                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 648968                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 90                     | QPSK       | 1       | 1         | 14.40                 | 14.45                    | 14.45                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 648334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 80                     | QPSK       | 1       | 1         | 14.39                 | 14.43                    | 14.43                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 650000                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 70                     | QPSK       | 1       | 1         | 14.43                 | 14.46                    | 14.36                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 60                     | QPSK       | 1       | 1         | 14.39                 | 14.45                    | 14.40                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 50                     | QPSK       | 1       | 1         | 14.46                 | 14.51                    | 14.44                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 40                     | QPSK       | 1       | 1         | 14.46                 | 14.45                    | 14.37                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 647688                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 30                     | QPSK       | 1       | 1         | 14.40                 | 14.51                    | 14.41                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 20                     | QPSK       | 1       | 1         | 14.45                 | 14.50                    | 14.37                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 15                     | QPSK       | 1       | 1         | 14.41                 | 14.49                    | 14.42                  | 15.5                |          | 0.0 |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)        |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| 10                     | QPSK       | 1       | 1         | 14.43                 | 14.50                    | 14.42                  | 15.5                |          | 0.0 |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                        |                        |                     |          |  |  |
|--------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               | 633332                 | 6399.98                |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 10.62                  |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 10.59                  |                        | 11.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 10.67                  |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 10.67                  |                        | 11.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 10.66                  |                        | 11.5                | 0.0      |  |  |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 10.66                  |                        |                     |          |  |  |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 10.68                  |                        | 11.5                | 0.0      |  |  |
| 100                | QPSK       | 1       | 1         |                       | 10.70                  |                        |                     |          |  |  |
| 100                | QPSK       | 1       | 137       |                       | 10.68                  |                        | 11.5                | 0.0      |  |  |
| 100                | QPSK       | 1       | 271       |                       | 10.61                  |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 0         |                       | 10.60                  |                        |                     |          |  |  |
| 100                | QPSK       | 135     | 69        |                       | 10.66                  |                        | 11.5                | 0.0      |  |  |
| 100                | QPSK       | 135     | 138       |                       | 10.68                  |                        |                     |          |  |  |
| 100                | QPSK       | 270     | 0         |                       | 10.68                  |                        | 11.5                | 0.0      |  |  |
| 100                | 16QAM      | 1       | 1         |                       | 10.64                  |                        | 11.5                | 0.0      |  |  |
| 100                | 64QAM      | 1       | 1         |                       | 10.63                  |                        | 11.5                | 0.0      |  |  |
| 100                | 256QAM     | 1       | 1         |                       | 10.59                  |                        | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 633000                | 633332                 | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 90                 | QPSK       | 1       | 1         | 10.61                 | 10.67                  | 10.60                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632668                | 633332                 | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                 | QPSK       | 1       | 1         | 10.60                 | 10.60                  | 10.60                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632334                | 633332                 | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                 | QPSK       | 1       | 1         | 10.63                 | 10.64                  | 10.66                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                 | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                 | QPSK       | 1       | 1         | 10.61                 | 10.67                  | 10.68                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631668                | 633332                 | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 10.60                 | 10.63                  | 10.66                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                 | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                 | QPSK       | 1       | 1         | 10.63                 | 10.59                  | 10.67                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                 | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                 | QPSK       | 1       | 1         | 10.62                 | 10.63                  | 10.64                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630668                | 633332                 | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                 | QPSK       | 1       | 1         | 10.62                 | 10.66                  | 10.62                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630300                | 633332                 | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                 | QPSK       | 1       | 1         | 10.62                 | 10.63                  | 10.65                  | 11.5                | 0.0      |  |  |
| Channel            |            |         |           |                       |                        |                        |                     |          |  |  |
| Frequency (MHz)    |            |         |           | 630000                | 633332                 | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                 | QPSK       | 1       | 1         | 10.63                 | 10.63                  | 10.60                  | 11.5                | 0.0      |  |  |

| Part270_n77_Ant 10 |            |         |           |                       |                          |                        |                     |                              |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|------------------------------|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                     |  |  |
| Channel            |            |         |           | 650000                | 650000                   | 662000                 |                     |                              |  |  |
| Frequency (MHz)    |            |         |           | 3750                  | 3840                     | 3930                   |                     |                              |  |  |
| 100                | Pl2 BPSK   | 1       | 1         | 10.30                 | 10.30                    | 10.09                  |                     |                              |  |  |
| 100                | Pl2 BPSK   | 1       | 137       | 10.32                 | 10.30                    | 10.20                  | 11.5                | 0.0                          |  |  |
| 100                | Pl2 BPSK   | 1       | 271       | 10.31                 | 10.31                    | 10.27                  |                     |                              |  |  |
| 100                | Pl2 BPSK   | 135     | 0         | 10.28                 | 10.31                    | 10.19                  | 11.5                | 0.0                          |  |  |
| 100                | Pl2 BPSK   | 135     | 69        | 10.27                 | 10.28                    | 10.32                  | 11.5                | 0.0                          |  |  |
| 100                | Pl2 BPSK   | 135     | 138       | 10.28                 | 10.29                    | 10.15                  |                     |                              |  |  |
| 100                | Pl2 BPSK   | 270     | 0         | 10.26                 | 10.33                    | 10.33                  | 11.5                | 0.0                          |  |  |
| 100                | QPSK       | 1       | 1         | 10.38                 | 10.35                    | 10.33                  |                     |                              |  |  |
| 100                | QPSK       | 1       | 137       | 10.28                 | 10.33                    | 10.30                  | 11.5                | 0.0                          |  |  |
| 100                | QPSK       | 1       | 271       | 10.25                 | 10.32                    | 10.29                  |                     |                              |  |  |
| 100                | QPSK       | 135     | 0         | 10.33                 | 10.32                    | 10.18                  | 11.5                | 0.0                          |  |  |
| 100                | QPSK       | 135     | 69        | 10.35                 | 10.33                    | 10.31                  | 11.5                | 0.0                          |  |  |
| 100                | QPSK       | 135     | 138       | 10.25                 | 10.30                    | 10.30                  |                     |                              |  |  |
| 100                | QPSK       | 270     | 0         | 10.32                 | 10.30                    | 10.31                  | 11.5                | 0.0                          |  |  |
| 100                | 16QAM      | 1       | 1         | 10.35                 | 10.34                    | 10.24                  | 11.5                | 0.0                          |  |  |
| 100                | 64QAM      | 1       | 1         | 10.35                 | 10.30                    | 10.28                  | 11.5                | 0.0                          |  |  |
| 100                | 256QAM     | 1       | 1         | 10.26                 | 10.32                    | 10.22                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 665600                | 665600                   | 662322                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 10.29                 | 10.31                    | 10.26                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 665354                | 665600                   | 665668                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| 50                 | QPSK       | 1       | 1         | 10.27                 | 10.31                    | 10.28                  | 11.5                | 0.0                          |  |  |
| 80                 | QPSK       | 1       | 1         | 10.32                 | 10.27                    | 10.23                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 665000                | 665000                   | 663000                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3840                     | 3945                   |                     |                              |  |  |
| 70                 | QPSK       | 1       | 1         | 10.28                 | 10.30                    | 10.23                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 664900                | 665000                   | 663133                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3750.02               | 3840                     | 3949.98                |                     |                              |  |  |
| 80                 | QPSK       | 1       | 1         | 10.33                 | 10.26                    | 10.31                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 664532                | 665000                   | 665054                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3755.01               | 3840                     | 3954.99                |                     |                              |  |  |
| 50                 | QPSK       | 1       | 1         | 10.30                 | 10.27                    | 10.27                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 665000                | 665000                   | 664000                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3732                  | 3840                     | 3960                   |                     |                              |  |  |
| 40                 | QPSK       | 1       | 1         | 10.29                 | 10.26                    | 10.25                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 664768                | 665000                   | 664532                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3751.02               | 3840                     | 3964.98                |                     |                              |  |  |
| 30                 | QPSK       | 1       | 1         | 10.29                 | 10.30                    | 10.26                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 667324                | 665000                   | 664668                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |                              |  |  |
| 20                 | QPSK       | 1       | 1         | 10.28                 | 10.32                    | 10.27                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 667412                | 665000                   | 664532                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |                              |  |  |
| 15                 | QPSK       | 1       | 1         | 10.27                 | 10.25                    | 10.24                  | 11.5                | 0.0                          |  |  |
| Channel            |            |         |           | 667000                | 665000                   | 665000                 |                     | Tune-up limit (dBm) MPR (dB) |  |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3840                     | 3972                   |                     |                              |  |  |
| 10                 | QPSK       | 1       | 1         | 10.27                 | 10.25                    | 10.31                  | 11.5                | 0.0                          |  |  |





| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 633332                |                          | 3499.98                |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 10.62                    |                        |                     | 11.5     | 0.0 |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 10.59                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 10.67                    |                        |                     |          |     |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 10.67                    |                        |                     | 11.5     | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 10.66                    |                        |                     | 11.5     | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 10.66                    |                        |                     | 11.5     | 0.0 |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 10.68                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 1         |                       | 10.70                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                       | 10.68                    |                        |                     | 11.5     | 0.0 |
| 100                     | QPSK       | 1       | 271       |                       | 10.61                    |                        |                     | 11.5     | 0.0 |
| 100                     | QPSK       | 135     | 0         |                       | 10.60                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                       | 10.66                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 138       |                       | 10.68                    |                        |                     | 11.5     | 0.0 |
| 100                     | QPSK       | 270     | 0         |                       | 10.68                    |                        |                     |          |     |
| 100                     | 16QAM      | 1       | 1         |                       | 10.64                    |                        |                     | 11.5     | 0.0 |
| 100                     | 64QAM      | 1       | 1         |                       | 10.63                    |                        |                     | 11.5     | 0.0 |
| 100                     | 256QAM     | 1       | 1         |                       | 10.59                    |                        |                     | 11.5     | 0.0 |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |     |
| 80                      | QPSK       | 1       | 1         | 10.61                 | 10.67                    | 10.60                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3496.02               | 3499.98                  | 3510                   |                     |          |     |
| 80                      | QPSK       | 1       | 1         | 10.60                 | 10.60                    | 10.60                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3490                  | 3499.98                  | 3514.98                |                     |          |     |
| 70                      | QPSK       | 1       | 1         | 10.63                 | 10.64                    | 10.66                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3490                  | 3499.98                  | 3514.98                |                     |          |     |
| 60                      | QPSK       | 1       | 1         | 10.61                 | 10.67                    | 10.68                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |     |
| 50                      | QPSK       | 1       | 1         | 10.60                 | 10.63                    | 10.66                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                      | QPSK       | 1       | 1         | 10.63                 | 10.59                    | 10.67                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |     |
| 30                      | QPSK       | 1       | 1         | 10.62                 | 10.63                    | 10.64                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                      | QPSK       | 1       | 1         | 10.62                 | 10.66                    | 10.62                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 630000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |     |
| 15                      | QPSK       | 1       | 1         | 10.62                 | 10.68                    | 10.68                  | 11.5                | 0.0      |     |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)         |            |         |           | 630334                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10                      | QPSK       | 1       | 1         | 10.63                 | 10.63                    | 10.60                  | 11.5                | 0.0      |     |

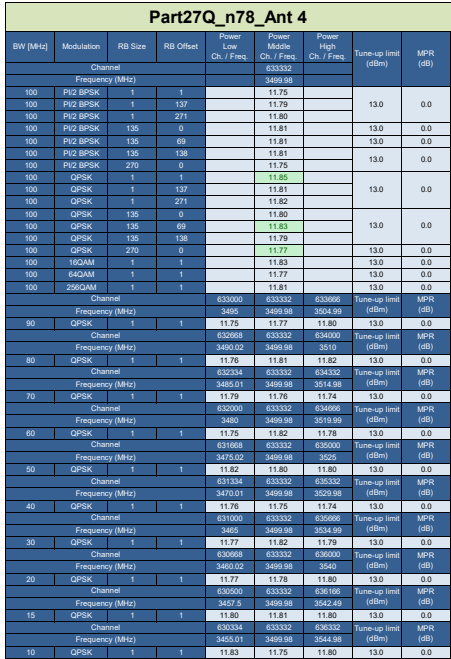
| Part27O_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 650000                | 650000                   | 650000                 |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 1         | 10.30                 | 10.30                    | 10.09                  | 11.5                | 0.0      |  |
| 100                     | Pl2 BPSK   | 1       | 137       | 10.32                 | 10.30                    | 10.20                  |                     |          |  |
| 100                     | Pl2 BPSK   | 1       | 271       | 10.31                 | 10.31                    | 10.27                  |                     |          |  |
| 100                     | Pl2 BPSK   | 135     | 0         | 10.28                 | 10.31                    | 10.19                  | 11.5                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 69        | 10.27                 | 10.28                    | 10.32                  | 11.5                | 0.0      |  |
| 100                     | Pl2 BPSK   | 135     | 138       | 10.28                 | 10.29                    | 10.15                  | 11.5                | 0.0      |  |
| 100                     | Pl2 BPSK   | 270     | 0         | 10.26                 | 10.33                    | 10.33                  |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 10.36                 | 10.36                    | 10.33                  |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 10.28                 | 10.33                    | 10.30                  | 11.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 10.25                 | 10.32                    | 10.29                  |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 10.33                 | 10.32                    | 10.19                  |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 10.35                 | 10.33                    | 10.11                  | 11.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 10.25                 | 10.30                    | 10.30                  |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 10.32                 | 10.30                    | 10.31                  |                     |          |  |
| 100                     | 10QAM      | 1       | 1         | 10.25                 | 10.34                    | 10.24                  | 11.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 10.35                 | 10.30                    | 10.26                  | 11.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 10.26                 | 10.32                    | 10.22                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3742.02               | 3740                     | 3741.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 10.29                 | 10.31                    | 10.26                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3740.01               | 3740                     | 3740.98                |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 10.32                 | 10.27                    | 10.23                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3735                  | 3740                     | 3745                   |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 10.28                 | 10.30                    | 10.23                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3729.02               | 3740                     | 3740.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 10.33                 | 10.26                    | 10.31                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3725.01               | 3740                     | 3740.98                |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 10.30                 | 10.27                    | 10.27                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3720                  | 3740                     | 3760                   |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 10.29                 | 10.26                    | 10.25                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3715.02               | 3740                     | 3740.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 10.29                 | 10.30                    | 10.23                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3710.01               | 3740                     | 3740.98                |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 10.28                 | 10.32                    | 10.27                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3707.5                | 3740                     | 3742.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 10.27                 | 10.25                    | 10.24                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646000                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3705                  | 3740                     | 3745                   |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 10.27                 | 10.25                    | 10.31                  | 11.5                | 0.0      |  |

| Part27Q_n77_Ant 8 |            |         |           |                       |                        |                        |                     |          |          |
|-------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |          |
| Channel           |            |         |           | 633332                |                        | 3499.98                |                     |          |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                        |                        |                     |          |          |
| 100               | Pl2 BPSK   | 1       | 1         |                       | 12.45                  |                        |                     | 13.5     | 0.0      |
| 100               | Pl2 BPSK   | 1       | 137       |                       | 12.43                  |                        |                     |          |          |
| 100               | Pl2 BPSK   | 1       | 271       |                       | 12.36                  |                        |                     |          |          |
| 100               | Pl2 BPSK   | 135     | 0         |                       | 12.38                  |                        |                     | 13.5     |          |
| 100               | Pl2 BPSK   | 135     | 69        |                       | 12.34                  |                        |                     | 13.5     | 0.0      |
| 100               | Pl2 BPSK   | 135     | 136       |                       | 12.38                  |                        |                     | 13.5     | 0.0      |
| 100               | Pl2 BPSK   | 270     | 0         |                       | 12.38                  |                        |                     | 13.5     | 0.0      |
| 100               | QPSK       | 1       | 1         |                       | 12.47                  |                        |                     |          |          |
| 100               | QPSK       | 1       | 137       |                       | 12.38                  |                        |                     | 13.5     | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 12.41                  |                        |                     |          |          |
| 100               | QPSK       | 135     | 0         |                       | 12.41                  |                        |                     | 13.5     | 0.0      |
| 100               | QPSK       | 135     | 69        |                       | 12.45                  |                        |                     | 13.5     | 0.0      |
| 100               | QPSK       | 135     | 136       |                       | 12.40                  |                        |                     | 13.5     | 0.0      |
| 100               | QPSK       | 270     | 0         |                       | 12.40                  |                        |                     | 13.5     | 0.0      |
| 100               | 16QAM      | 1       | 1         |                       | 12.42                  |                        |                     | 13.5     | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 12.31                  |                        |                     | 13.5     | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 12.26                  |                        |                     | 13.5     | 0.0      |
| Channel           |            |         |           | 633000                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 90                | QPSK       | 1       | 1         | 12.43                 | 12.36                  | 12.38                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 632668                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 80                | QPSK       | 1       | 1         | 12.39                 | 12.37                  | 12.44                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 632334                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 70                | QPSK       | 1       | 1         | 12.38                 | 12.41                  | 12.30                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 632000                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 60                | QPSK       | 1       | 1         | 12.42                 | 12.37                  | 12.45                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 631668                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 50                | QPSK       | 1       | 1         | 12.42                 | 12.43                  | 12.37                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 631334                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 40                | QPSK       | 1       | 1         | 12.45                 | 12.43                  | 12.40                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 631000                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| Channel           |            |         |           | 630668                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 20                | QPSK       | 1       | 1         | 12.37                 | 12.46                  | 12.36                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 630334                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 15                | QPSK       | 1       | 1         | 12.40                 | 12.44                  | 12.40                  | 13.5                | 0.0      |          |
| Channel           |            |         |           | 630000                |                        | 3499.98                | 3499.98             |          | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                        | 3499.98                |                     |          |          |
| 10                | QPSK       | 1       | 1         | 12.39                 | 12.39                  | 12.42                  | 13.5                | 0.0      |          |

| Part270_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 1         | 11.92                 | 11.90                    | 11.89                  |                     |          |  |
| 100               | Pl2 BPSK   | 1       | 137       | 11.85                 | 11.94                    | 11.91                  | 13.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 1       | 271       | 11.83                 | 11.92                    | 11.88                  |                     |          |  |
| 100               | Pl2 BPSK   | 135     | 0         | 11.84                 | 11.89                    | 11.94                  | 13.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 69        | 11.75                 | 11.94                    | 11.85                  | 13.5                | 0.0      |  |
| 100               | Pl2 BPSK   | 135     | 138       | 11.74                 | 11.87                    | 11.87                  |                     |          |  |
| 100               | Pl2 BPSK   | 270     | 0         | 11.78                 | 11.93                    | 11.92                  | 13.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 11.91                 | 11.90                    | 11.91                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 11.83                 | 11.92                    | 11.84                  | 13.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 11.80                 | 11.87                    | 11.74                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 11.87                 | 11.90                    | 11.85                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 11.75                 | 11.94                    | 11.85                  | 13.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 11.79                 | 11.87                    | 11.83                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 11.83                 | 11.93                    | 11.92                  | 13.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 11.89                 | 11.91                    | 11.86                  | 13.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 11.75                 | 11.91                    | 11.88                  | 13.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 11.87                 | 11.93                    | 11.94                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 11.80                 | 11.85                    | 11.85                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 11.83                 | 11.85                    | 11.79                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 11.85                 | 11.86                    | 11.84                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 11.85                 | 11.91                    | 11.81                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 11.84                 | 11.90                    | 11.81                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 11.83                 | 11.93                    | 11.80                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 11.85                 | 11.93                    | 11.85                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 11.83                 | 11.87                    | 11.80                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 11.86                 | 11.85                    | 11.81                  | 13.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 11.87                 | 11.94                    | 11.84                  | 13.5                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 12.45                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 12.43                    |                        | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 12.36                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 12.38                    |                        | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 12.34                    |                        | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 12.38                    |                        | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 12.38                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 12.47                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 12.38                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 12.43                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 12.41                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 12.45                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 12.45                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 12.38                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 12.40                    |                        | 13.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 12.42                    |                        | 13.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 12.31                    |                        | 13.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 12.38                    |                        | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 12.43                 | 12.36                    | 12.38                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 12.39                 | 12.37                    | 12.44                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 12.38                 | 12.41                    | 12.39                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 12.42                 | 12.37                    | 12.45                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 12.42                 | 12.43                    | 12.37                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 12.45                 | 12.43                    | 12.40                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 12.45                 | 12.36                    | 12.44                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 12.37                 | 12.45                    | 12.36                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 12.40                 | 12.44                    | 12.40                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 12.39                 | 12.39                    | 12.42                  | 13.5                | 0.0      |  |

| Part270_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         | 11.92                 | 11.90                    | 11.89                  |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       | 11.85                 | 11.94                    | 11.91                  | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       | 11.83                 | 11.92                    | 11.88                  |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         | 11.84                 | 11.89                    | 11.94                  | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        | 11.75                 | 11.94                    | 11.85                  | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       | 11.74                 | 11.87                    | 11.87                  |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         | 11.78                 | 11.93                    | 11.89                  | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 11.91                 | 11.90                    | 11.91                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 11.83                 | 11.92                    | 11.84                  | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 11.80                 | 11.87                    | 11.74                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 11.87                 | 11.90                    | 11.85                  |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 11.75                 | 11.94                    | 11.85                  | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 11.79                 | 11.87                    | 11.83                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 11.83                 | 11.93                    | 11.92                  | 13.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 11.85                 | 11.91                    | 11.86                  | 13.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 11.75                 | 11.91                    | 11.88                  | 13.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 11.87                 | 11.93                    | 11.94                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 11.80                 | 11.85                    | 11.85                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 11.83                 | 11.85                    | 11.79                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 11.85                 | 11.86                    | 11.84                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 11.85                 | 11.91                    | 11.81                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 11.84                 | 11.90                    | 11.81                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 11.83                 | 11.93                    | 11.80                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 11.85                 | 11.94                    | 11.85                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 11.83                 | 11.87                    | 11.80                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 11.86                 | 11.85                    | 11.81                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 11.87                 | 11.94                    | 11.84                  | 13.5                | 0.0      |  |



| Part270 n78_Ant 4 |                 |         |           |                      |                       |                      |                       |                     |          |
|-------------------|-----------------|---------|-----------|----------------------|-----------------------|----------------------|-----------------------|---------------------|----------|
| BW [MHz]          | Modulation      | RB Size | RB Offset | Power Low Ch./ Freq. | Power High Ch./ Freq. | Power Low Ch./ Freq. | Power High Ch./ Freq. | Time-up limit (dBm) | MPR (dB) |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           |                      |                       |                      |                       |                     |          |
| 100               | Pd2 BPSK        | 1       | 1         |                      | 11.77                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 1       | 137       |                      | 11.70                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 1       | 271       |                      | 11.72                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 135     | 15        |                      | 11.76                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 135     | 69        |                      | 11.75                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 135     | 138       |                      | 11.75                 |                      |                       | 13.0                | 0.0      |
| 100               | Pd2 BPSK        | 270     | 0         |                      | 11.77                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 1       | 1         |                      | 11.80                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 1       | 137       |                      | 11.72                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 1       | 271       |                      | 11.72                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 135     | 0         |                      | 11.75                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 135     | 69        |                      | 11.78                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 135     | 136       |                      | 11.76                 |                      |                       | 13.0                | 0.0      |
| 100               | QPSK            | 270     | 0         |                      | 11.77                 |                      |                       | 13.0                | 0.0      |
| 100               | 16QAM           | 1       | 1         |                      | 11.75                 |                      |                       | 13.0                | 0.0      |
| 100               | 64QAM           | 1       | 1         |                      | 11.74                 |                      |                       | 13.0                | 0.0      |
| 100               | 256QAM          | 1       | 1         |                      | 11.76                 |                      |                       | 13.0                | 0.0      |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649686               | 650000                | 650132               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3741.02              | 3750                  | 3764.48              |                       | 13.0                | 0.0      |
| 90                | QPSK            | 1       | 1         | 11.72                | 11.69                 | 11.70                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649534               | 650000                | 650966               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3741.01              | 3750                  | 3769.98              |                       | 13.0                | 0.0      |
| 90                | QPSK            | 1       | 1         | 11.74                | 11.70                 | 11.70                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649900               | 650000                | 651000               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3735                 | 3750                  | 3765                 |                       | 13.0                | 0.0      |
| 70                | QPSK            | 1       | 1         | 11.77                | 11.77                 | 11.70                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649686               | 650000                | 651132               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3730.02              | 3750                  | 3769.98              |                       | 13.0                | 0.0      |
| 60                | QPSK            | 1       | 1         | 11.74                | 11.74                 | 11.71                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649534               | 650000                | 651000               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3726.51              | 3750                  | 3774.99              |                       | 13.0                | 0.0      |
| 50                | QPSK            | 1       | 1         | 11.73                | 11.71                 | 11.70                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 649900               | 650000                | 652000               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3720                 | 3750                  | 3760                 |                       | 13.0                | 0.0      |
| 40                | QPSK            | 1       | 1         | 11.78                | 11.76                 | 11.74                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 647668               | 650000                | 652532               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3715.02              | 3750                  | 3764.48              |                       | 13.0                | 0.0      |
| 30                | QPSK            | 1       | 1         | 11.70                | 11.70                 | 11.72                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 647354               | 650000                | 652696               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3710.01              | 3750                  | 3769.99              |                       | 13.0                | 0.0      |
| 20                | QPSK            | 1       | 1         | 11.75                | 11.69                 | 11.76                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 647616               | 650000                | 652532               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3707.52              | 3750                  | 3792.48              |                       | 13.0                | 0.0      |
| 15                | QPSK            | 1       | 1         | 11.72                | 11.74                 | 11.69                | 13.0                  | 0.0                 |          |
|                   | Channel         |         |           |                      |                       |                      |                       |                     |          |
|                   | Frequency (MHz) |         |           | 647000               | 650000                | 653000               |                       | Time-up limit (dBm) | MPR (dB) |
|                   |                 |         |           | 3705                 | 3750                  | 3795                 |                       | 13.0                | 0.0      |
| 10                | QPSK            | 1       | 1         | 11.69                | 11.71                 | 11.70                | 13.0                  | 0.0                 |          |

| Part27Q_n78 HPUE Ant 4 |            |                 |           |                              |                              |                              |                        |             |  |
|------------------------|------------|-----------------|-----------|------------------------------|------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]               | Modulation | RB Size         | RB Offset | Power<br>Level<br>Ch / Freq. | Power<br>Level<br>Ch / Freq. | Power<br>Level<br>Ch / Freq. | Turn-up time<br>(dBm)  | MPR<br>(dB) |  |
| Channel                |            | Frequency (MHz) |           | 635332                       |                              | 635332                       |                        |             |  |
| 100                    | P22 BPSK   | 1               | 1         |                              | 11.75                        |                              |                        |             |  |
|                        | P22 BPSK   | 1               | 137       |                              | 11.71                        |                              | 13.0                   | 0.0         |  |
|                        | P22 BPSK   | 1               | 271       |                              | 11.56                        |                              | 13.0                   | 0.0         |  |
|                        | P22 BPSK   | 135             | 0         |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
| 100                    | P22 BPSK   | 135             | 69        |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
|                        | P22 BPSK   | 135             | 135       |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
|                        | P22 BPSK   | 270             | 0         |                              | 11.78                        |                              | 13.0                   | 0.0         |  |
|                        | QPSK       | 1               | 1         |                              | 11.85                        |                              | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 1               | 137       |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
|                        | QPSK       | 1               | 271       |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 135             | 0         |                              | 11.85                        |                              | 13.0                   | 0.0         |  |
|                        | QPSK       | 135             | 69        |                              | 11.83                        |                              | 13.0                   | 0.0         |  |
|                        | QPSK       | 135             | 135       |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
|                        | QPSK       | 270             | 0         |                              | 11.77                        |                              | 13.0                   | 0.0         |  |
| 100                    | 16QAM      | 1               | 1         |                              | 11.83                        |                              | 13.0                   | 0.0         |  |
|                        | 64QAM      | 1               | 1         |                              | 11.77                        |                              | 13.0                   | 0.0         |  |
|                        | 256QAM     | 1               | 1         |                              | 11.81                        |                              | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 635000                       | 635332                       | 635666                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 50                     | QPSK       | 1               | 1         | 11.75                        | 11.77                        | 11.80                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 635668                       | 635332                       | 634000                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 80                     | QPSK       | 1               | 1         | 11.75                        | 11.81                        | 11.82                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 632584                       | 635332                       | 634382                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 70                     | QPSK       | 1               | 1         | 11.70                        | 11.70                        | 11.74                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 635000                       | 635332                       | 634066                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 80                     | QPSK       | 1               | 1         | 11.75                        | 11.82                        | 11.78                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 631334                       | 635332                       | 635332                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 50                     | QPSK       | 1               | 1         | 11.82                        | 11.80                        | 11.80                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 3407.52                      | 3499.98                      | 3502.48                      | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 50                     | QPSK       | 1               | 1         | 11.76                        | 11.75                        | 11.74                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 631000                       | 635332                       | 635666                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 30                     | QPSK       | 1               | 1         | 11.77                        | 11.82                        | 11.79                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 3405.02                      | 3499.98                      | 3504.98                      | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 20                     | QPSK       | 1               | 1         | 11.77                        | 11.78                        | 11.80                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 635000                       | 635332                       | 635666                       | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 15                     | QPSK       | 1               | 1         | 11.80                        | 11.81                        | 11.80                        | 13.0                   | 0.0         |  |
| Channel                |            | Frequency (MHz) |           | 3405.02                      | 3499.98                      | 3504.98                      | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| 10                     | QPSK       | 1               | 1         | 11.83                        | 11.75                        | 11.80                        | 13.0                   | 0.0         |  |

| Part27O_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                       | 11.77                    |                        | 13.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                       | 11.70                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                       | 11.72                    |                        |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 0         |                       | 11.76                    |                        | 13.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                       | 11.75                    |                        | 13.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                       | 11.75                    |                        | 13.0                | 0.0      |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                       | 11.77                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 11.80                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 11.72                    |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 11.72                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 11.75                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 11.76                    |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 11.70                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 11.77                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 11.75                    |                        | 13.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 11.76                    |                        | 13.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 11.74                    |                        | 13.0                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 11.72                 | 11.69                    | 11.70                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 11.74                 | 11.78                    | 11.76                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 11.77                 | 11.77                    | 11.76                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 11.74                 | 11.74                    | 11.71                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 11.73                 | 11.71                    | 11.70                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3760                   |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 11.78                 | 11.76                    | 11.74                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 11.70                 | 11.70                    | 11.75                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3713.01               | 3750                     | 3786.99                |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 11.75                 | 11.68                    | 11.76                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 11.72                 | 11.74                    | 11.68                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 645000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 11.69                 | 11.71                    | 11.70                  | 13.0                | 0.0      |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |                     |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 14.24                    |                        |                     |                     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 14.20                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 14.23                    |                        |                     |                     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 14.18                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 14.20                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 14.26                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 14.24                    |                        |                     |                     |
| 100             | QPSK       | 1       | 1         |                       | 14.28                    |                        |                     |                     |
| 100             | QPSK       | 1       | 137       |                       | 14.25                    |                        | 15.5                | 0.0                 |
| 100             | QPSK       | 1       | 271       |                       | 14.22                    |                        |                     |                     |
| 100             | QPSK       | 135     | 0         |                       | 14.23                    |                        |                     |                     |
| 100             | QPSK       | 135     | 69        |                       | 14.26                    |                        | 15.5                | 0.0                 |
| 100             | QPSK       | 135     | 138       |                       | 14.21                    |                        |                     |                     |
| 100             | QPSK       | 270     | 0         |                       | 14.24                    |                        | 15.5                | 0.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 14.24                    |                        | 15.5                | 0.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 14.20                    |                        | 15.5                | 0.0                 |
| 100             | 256QAM     | 1       | 1         |                       | 14.22                    |                        | 15.5                | 0.0                 |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 633000                |                          | 633666                 | Tune-up limit (dBm) | MPR (dB)            |
|                 |            |         |           | 3495                  |                          | 3499.98                | 3504.99             |                     |
| 80              | QPSK       | 1       | 1         |                       | 14.19                    | 14.25                  | 14.19               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 633668                |                          | 633332                 | 634000              | Tune-up limit (dBm) |
|                 |            |         |           | 3496.02               |                          | 3499.98                | 3514.98             |                     |
| 80              | QPSK       | 1       | 1         |                       | 14.21                    | 14.23                  | 14.24               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 632000                |                          | 633332                 | 634666              | Tune-up limit (dBm) |
|                 |            |         |           | 3485.01               |                          | 3499.98                | 3514.98             |                     |
| 70              | QPSK       | 1       | 1         |                       | 14.25                    | 14.25                  | 14.17               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 632000                |                          | 633332                 | 634666              | Tune-up limit (dBm) |
|                 |            |         |           | 3485.01               |                          | 3499.98                | 3514.98             |                     |
| 60              | QPSK       | 1       | 1         |                       | 14.17                    | 14.17                  | 14.18               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 631668                |                          | 633332                 | 635000              | Tune-up limit (dBm) |
|                 |            |         |           | 3475.02               |                          | 3499.98                | 3525                |                     |
| 50              | QPSK       | 1       | 1         |                       | 14.19                    | 14.19                  | 14.17               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 631334                |                          | 633332                 | 635332              | Tune-up limit (dBm) |
|                 |            |         |           | 3470.01               |                          | 3499.98                | 3529.98             |                     |
| 40              | QPSK       | 1       | 1         |                       | 14.26                    | 14.21                  | 14.24               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 631000                |                          | 633332                 | 635666              | Tune-up limit (dBm) |
|                 |            |         |           | 3465                  |                          | 3499.98                | 3534.99             |                     |
| 30              | QPSK       | 1       | 1         |                       | 14.20                    | 14.23                  | 14.25               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 630668                |                          | 633332                 | 636000              | Tune-up limit (dBm) |
|                 |            |         |           | 3460.02               |                          | 3499.98                | 3540                |                     |
| 20              | QPSK       | 1       | 1         |                       | 14.24                    | 14.23                  | 14.18               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 630000                |                          | 633332                 | 636166              | Tune-up limit (dBm) |
|                 |            |         |           | 3457.5                |                          | 3499.98                | 3542.49             |                     |
| 15              | QPSK       | 1       | 1         |                       | 14.23                    | 14.26                  | 14.22               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 630334                |                          | 633332                 | 636332              | Tune-up limit (dBm) |
|                 |            |         |           | 3455.01               |                          | 3499.98                | 3544.98             |                     |
| 10              | QPSK       | 1       | 1         |                       | 14.20                    | 14.26                  | 14.25               | 15.5 0.0            |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 649968                |                          | 650000                 | 650352              | MPR (dB)            |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 14.49                    |                        |                     |                     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 14.44                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 14.49                    |                        |                     |                     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 14.50                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 14.49                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 14.52                    |                        | 15.5                | 0.0                 |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 14.49                    |                        |                     |                     |
| 100             | QPSK       | 1       | 1         |                       | 14.54                    |                        |                     |                     |
| 100             | QPSK       | 1       | 137       |                       | 14.47                    |                        | 15.5                | 0.0                 |
| 100             | QPSK       | 1       | 271       |                       | 14.45                    |                        |                     |                     |
| 100             | QPSK       | 135     | 0         |                       | 14.50                    |                        |                     |                     |
| 100             | QPSK       | 135     | 69        |                       | 14.53                    |                        | 15.5                | 0.0                 |
| 100             | QPSK       | 135     | 138       |                       | 14.50                    |                        |                     |                     |
| 100             | QPSK       | 270     | 0         |                       | 14.49                    |                        | 15.5                | 0.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 14.45                    |                        | 15.5                | 0.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 14.45                    |                        | 15.5                | 0.0                 |
| 100             | 256QAM     | 1       | 1         |                       | 14.44                    |                        | 15.5                | 0.0                 |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 649968                |                          | 650000                 | 650352              | MPR (dB)            |
|                 |            |         |           | 3742.02               |                          | 3750                   | 3742.98             |                     |
| 90              | QPSK       | 1       | 1         |                       | 14.43                    | 14.52                  | 14.49               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 648334                |                          | 650000                 | 650968              | Tune-up limit (dBm) |
|                 |            |         |           | 3740.01               |                          | 3750                   | 3759.98             |                     |
| 80              | QPSK       | 1       | 1         |                       | 14.45                    | 14.50                  | 14.43               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 648000                |                          | 650000                 | 651000              | Tune-up limit (dBm) |
|                 |            |         |           | 3735                  |                          | 3750                   | 3765                |                     |
| 70              | QPSK       | 1       | 1         |                       | 14.48                    | 14.50                  | 14.51               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 648668                |                          | 650000                 | 651332              | Tune-up limit (dBm) |
|                 |            |         |           | 3740.02               |                          | 3750                   | 3749.98             |                     |
| 60              | QPSK       | 1       | 1         |                       | 14.45                    | 14.45                  | 14.43               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 648334                |                          | 650000                 | 651668              | Tune-up limit (dBm) |
|                 |            |         |           | 3725.01               |                          | 3750                   | 3774.98             |                     |
| 50              | QPSK       | 1       | 1         |                       | 14.52                    | 14.45                  | 14.51               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 648000                |                          | 650000                 | 652000              | Tune-up limit (dBm) |
|                 |            |         |           | 3720                  |                          | 3750                   | 3760                |                     |
| 40              | QPSK       | 1       | 1         |                       | 14.46                    | 14.48                  | 14.50               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 647668                |                          | 650000                 | 652332              | Tune-up limit (dBm) |
|                 |            |         |           | 3715.02               |                          | 3750                   | 3764.98             |                     |
| 30              | QPSK       | 1       | 1         |                       | 14.45                    | 14.51                  | 14.52               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 647334                |                          | 650000                 | 652668              | Tune-up limit (dBm) |
|                 |            |         |           | 3710.01               |                          | 3750                   | 3769.98             |                     |
| 20              | QPSK       | 1       | 1         |                       | 14.43                    | 14.44                  | 14.44               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 647168                |                          | 650000                 | 652832              | Tune-up limit (dBm) |
|                 |            |         |           | 3707.52               |                          | 3750                   | 3762.48             |                     |
| 15              | QPSK       | 1       | 1         |                       | 14.48                    | 14.51                  | 14.48               | 15.5 0.0            |
| Channel         |            |         |           |                       |                          |                        |                     |                     |
| Frequency (MHz) |            |         |           | 647000                |                          | 650000                 | 653000              | Tune-up limit (dBm) |
|                 |            |         |           | 3705                  |                          | 3750                   | 3765                |                     |
| 10              | QPSK       | 1       | 1         |                       | 14.49                    | 14.47                  | 14.47               | 15.5 0.0            |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 633332                |                          | 3499.98                |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 14.24                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 14.20                    |                        | 15.5                | 0.0      |     |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 14.23                    |                        |                     |          |     |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 14.18                    |                        | 15.5                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 14.20                    |                        | 15.5                | 0.0      |     |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 14.26                    |                        | 15.5                | 0.0      |     |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 14.24                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 1         |                       | 14.28                    |                        |                     |          |     |
| 100             | QPSK       | 1       | 137       |                       | 14.25                    |                        | 15.5                | 0.0      |     |
| 100             | QPSK       | 1       | 271       |                       | 14.22                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 0         |                       | 14.23                    |                        |                     |          |     |
| 100             | QPSK       | 135     | 69        |                       | 14.26                    |                        | 15.5                | 0.0      |     |
| 100             | QPSK       | 135     | 138       |                       | 14.21                    |                        |                     |          |     |
| 100             | QPSK       | 270     | 0         |                       | 14.24                    |                        | 15.5                | 0.0      |     |
| 100             | 16QAM      | 1       | 1         |                       | 14.24                    |                        | 15.5                | 0.0      |     |
| 100             | 16QAM      | 1       | 1         |                       | 14.20                    |                        | 15.5                | 0.0      |     |
| 100             | 256QAM     | 1       | 1         |                       | 14.22                    |                        | 15.5                | 0.0      |     |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |     |
| 80              | QPSK       | 1       | 1         |                       | 14.19                    | 14.25                  | 14.19               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 633668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3499.98               | 3495                     | 3499.98                |                     |          |     |
| 80              | QPSK       | 1       | 1         |                       | 14.21                    | 14.23                  | 14.24               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 633334                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3495.01               | 3499.98                  | 3504.98                |                     |          |     |
| 70              | QPSK       | 1       | 1         |                       | 14.25                    | 14.26                  | 14.17               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 633200                | 633332                   | 633464                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |     |
| 60              | QPSK       | 1       | 1         |                       | 14.17                    | 14.17                  | 14.18               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 631688                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3470.01               | 3499.98                  | 3520                   |                     |          |     |
| 50              | QPSK       | 1       | 1         |                       | 14.19                    | 14.19                  | 14.17               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40              | QPSK       | 1       | 1         |                       | 14.26                    | 14.21                  | 14.24               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3465                  | 3499.98                  | 3524.99                |                     |          |     |
| 30              | QPSK       | 1       | 1         |                       | 14.20                    | 14.23                  | 14.25               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20              | QPSK       | 1       | 1         |                       | 14.24                    | 14.23                  | 14.18               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 630330                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 15              | QPSK       | 1       | 1         |                       | 14.23                    | 14.26                  | 14.22               | 15.5     | 0.0 |
| Channel         |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |     |
|                 |            |         |           | 3450.01               | 3499.98                  | 3549.98                |                     |          |     |
| 10              | QPSK       | 1       | 1         |                       | 14.20                    | 14.20                  | 14.25               | 15.5     | 0.0 |

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|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          | 3750                   | 15.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 14.49                    |                        | 15.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 14.44                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 14.49                    |                        | 15.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 14.50                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 14.49                    |                        | 15.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 14.52                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 14.49                    |                        | 15.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 14.54                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 14.47                    |                        | 15.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 14.45                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 14.50                    |                        | 15.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 14.53                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 14.50                    |                        | 15.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 14.49                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 14.45                    |                        | 15.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 14.45                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 14.44                    |                        | 15.5                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3742.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                     | QPSK       | 1       | 1         | 14.43                 | 14.52                    | 14.49                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                     | QPSK       | 1       | 1         | 14.45                 | 14.50                    | 14.43                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                     | QPSK       | 1       | 1         | 14.48                 | 14.50                    | 14.51                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                     | QPSK       | 1       | 1         | 14.45                 | 14.45                    | 14.43                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                     | QPSK       | 1       | 1         | 14.52                 | 14.45                    | 14.51                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               | (dB)     |  |
| 40                     | QPSK       | 1       | 1         | 14.46                 | 14.48                    | 14.50                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                     | QPSK       | 1       | 1         | 14.45                 | 14.51                    | 14.52                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                     | QPSK       | 1       | 1         | 14.43                 | 14.44                    | 14.44                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3707.62               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                     | QPSK       | 1       | 1         | 14.48                 | 14.51                    | 14.48                  | 15.5                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                     | QPSK       | 1       | 1         | 14.49                 | 14.47                    | 14.47                  | 15.5                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |                     |     |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel            |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 10.47                    |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 10.45                    |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 10.41                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 1       | 1         |                       | 10.49                    |                        |                     |                     |     |
| 100                | QPSK       | 1       | 137       |                       | 10.39                    |                        |                     |                     |     |
| 100                | QPSK       | 1       | 271       |                       | 10.44                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 135     | 0         |                       | 10.41                    |                        |                     |                     |     |
| 100                | QPSK       | 135     | 69        |                       | 10.45                    |                        |                     |                     |     |
| 100                | QPSK       | 135     | 138       |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 270     | 0         |                       | 10.44                    |                        |                     |                     |     |
| 100                | 16QAM      | 1       | 1         |                       | 10.44                    |                        |                     |                     |     |
| 100                | 64QAM      | 1       | 1         |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                | 256QAM     | 1       | 1         |                       | 10.48                    |                        |                     | 11.5                | 0.0 |
| Channel            |            |         |           | 633000                |                          | 633666                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3495                  |                          | 3504.99                |                     | MPR (dB)            |     |
| 80                 | QPSK       | 1       | 1         |                       | 10.43                    | 10.45                  | 10.40               | 11.5                | 0.0 |
| Channel            |            |         |           | 632668                |                          | 633000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3496.02               |                          | 3499.98                |                     | 3510                |     |
| 80                 | QPSK       | 1       | 1         |                       | 10.39                    | 10.40                  | 10.41               | 11.5                | 0.0 |
| Channel            |            |         |           | 632334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3485.01               |                          | 3499.98                |                     | 3514.98             |     |
| 70                 | QPSK       | 1       | 1         |                       | 10.41                    | 10.42                  | 10.47               | 11.5                | 0.0 |
| Channel            |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3480                  |                          | 3499.98                |                     | 3519.98             |     |
| 60                 | QPSK       | 1       | 1         |                       | 10.45                    | 10.45                  | 10.45               | 11.5                | 0.0 |
| Channel            |            |         |           | 631668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3475.02               |                          | 3499.98                |                     | 3525                |     |
| 50                 | QPSK       | 1       | 1         |                       | 10.47                    | 10.45                  | 10.46               | 11.5                | 0.0 |
| Channel            |            |         |           | 631334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3470.01               |                          | 3499.98                |                     | 3529.98             |     |
| 40                 | QPSK       | 1       | 1         |                       | 10.41                    | 10.43                  | 10.41               | 11.5                | 0.0 |
| Channel            |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3465                  |                          | 3499.98                |                     | 3534.99             |     |
| 30                 | QPSK       | 1       | 1         |                       | 10.41                    | 10.39                  | 10.40               | 11.5                | 0.0 |
| Channel            |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3460.02               |                          | 3499.98                |                     | 3540                |     |
| 20                 | QPSK       | 1       | 1         |                       | 10.39                    | 10.38                  | 10.44               | 11.5                | 0.0 |
| Channel            |            |         |           | 630300                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3457.5                |                          | 3499.98                |                     | 3542.49             |     |
| 15                 | QPSK       | 1       | 1         |                       | 10.34                    | 10.41                  | 10.46               | 11.5                | 0.0 |
| Channel            |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3455.01               |                          | 3499.98                |                     | 3544.98             |     |
| 10                 | QPSK       | 1       | 1         |                       | 10.40                    | 10.43                  | 10.45               | 11.5                | 0.0 |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |                     |     |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel            |            |         |           | 650000                |                          | 3750                   |                     |                     |     |
| Frequency (MHz)    |            |         |           | 3750                  |                          |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 1       | 1         |                       | 10.32                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 1       | 137       |                       | 10.35                    |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 1       | 271       |                       | 10.32                    |                        |                     |                     |     |
| 100                | Pl2 BPSK   | 135     | 0         |                       | 10.31                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 135     | 69        |                       | 10.36                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 135     | 138       |                       | 10.26                    |                        |                     | 11.5                | 0.0 |
| 100                | Pl2 BPSK   | 270     | 0         |                       | 10.34                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 1       | 1         |                       | 10.40                    |                        |                     |                     |     |
| 100                | QPSK       | 1       | 137       |                       | 10.29                    |                        |                     |                     |     |
| 100                | QPSK       | 1       | 271       |                       | 10.38                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 135     | 0         |                       | 10.33                    |                        |                     |                     |     |
| 100                | QPSK       | 135     | 69        |                       | 10.38                    |                        |                     |                     |     |
| 100                | QPSK       | 135     | 138       |                       | 10.37                    |                        |                     | 11.5                | 0.0 |
| 100                | QPSK       | 270     | 0         |                       | 10.32                    |                        |                     |                     |     |
| 100                | 16QAM      | 1       | 1         |                       | 10.26                    |                        |                     |                     |     |
| 100                | 64QAM      | 1       | 1         |                       | 10.38                    |                        |                     | 11.5                | 0.0 |
| 100                | 256QAM     | 1       | 1         |                       | 10.38                    |                        |                     | 11.5                | 0.0 |
| Channel            |            |         |           | 649668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3742.02               |                          | 3750                   |                     | 3754.98             |     |
| 80                 | QPSK       | 1       | 1         |                       | 10.36                    | 10.36                  | 10.33               | 11.5                | 0.0 |
| Channel            |            |         |           | 649334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3740.01               |                          | 3750                   |                     | 3759.98             |     |
| 80                 | QPSK       | 1       | 1         |                       | 10.33                    | 10.38                  | 10.32               | 11.5                | 0.0 |
| Channel            |            |         |           | 649000                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3735                  |                          | 3750                   |                     | 3765                |     |
| 70                 | QPSK       | 1       | 1         |                       | 10.37                    | 10.35                  | 10.29               | 11.5                | 0.0 |
| Channel            |            |         |           | 648668                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3725.01               |                          | 3750                   |                     | 3774.98             |     |
| 60                 | QPSK       | 1       | 1         |                       | 10.33                    | 10.37                  | 10.35               | 11.5                | 0.0 |
| Channel            |            |         |           | 648334                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3720                  |                          | 3750                   |                     | 3780                |     |
| 40                 | QPSK       | 1       | 1         |                       | 10.35                    | 10.35                  | 10.31               | 11.5                | 0.0 |
| Channel            |            |         |           | 647968                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3715.02               |                          | 3750                   |                     | 3784.98             |     |
| 30                 | QPSK       | 1       | 1         |                       | 10.31                    | 10.36                  | 10.35               | 11.5                | 0.0 |
| Channel            |            |         |           | 647534                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3713.01               |                          | 3750                   |                     | 3789.98             |     |
| 20                 | QPSK       | 1       | 1         |                       | 10.26                    | 10.34                  | 10.33               | 11.5                | 0.0 |
| Channel            |            |         |           | 647168                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3707.52               |                          | 3750                   |                     | 3792.48             |     |
| 15                 | QPSK       | 1       | 1         |                       | 10.28                    | 10.31                  | 10.29               | 11.5                | 0.0 |
| Channel            |            |         |           | 646800                |                          | 650000                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)    |            |         |           | 3705                  |                          | 3750                   |                     | 3795                |     |
| 10                 | QPSK       | 1       | 1         |                       | 10.34                    | 10.30                  | 10.30               | 11.5                | 0.0 |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |                     |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |
| Channel                 |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |                     |     |
| 100                     | Pl2 BPSK   | 1       | 1         |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                     | Pl2 BPSK   | 1       | 137       |                       | 10.46                    |                        |                     |                     |     |
| 100                     | Pl2 BPSK   | 1       | 271       |                       | 10.41                    |                        |                     |                     |     |
| 100                     | Pl2 BPSK   | 135     | 0         |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 69        |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                     | Pl2 BPSK   | 135     | 138       |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                     | Pl2 BPSK   | 270     | 0         |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                     | QPSK       | 1       | 1         |                       | 10.45                    |                        |                     |                     |     |
| 100                     | QPSK       | 1       | 137       |                       | 10.39                    |                        |                     |                     |     |
| 100                     | QPSK       | 1       | 271       |                       | 10.44                    |                        |                     | 11.5                | 0.0 |
| 100                     | QPSK       | 135     | 0         |                       | 10.41                    |                        |                     |                     |     |
| 100                     | QPSK       | 135     | 69        |                       | 10.45                    |                        |                     |                     |     |
| 100                     | QPSK       | 135     | 138       |                       | 10.47                    |                        |                     | 11.5                | 0.0 |
| 100                     | QPSK       | 270     | 0         |                       | 10.44                    |                        |                     |                     |     |
| 100                     | 16QAM      | 1       | 1         |                       | 10.44                    |                        |                     |                     |     |
| 100                     | 64QAM      | 1       | 1         |                       | 10.46                    |                        |                     | 11.5                | 0.0 |
| 100                     | 256QAM     | 1       | 1         |                       | 10.48                    |                        |                     | 11.5                | 0.0 |
| Channel                 |            |         |           | 633000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495                  |                          | 3498.98                |                     | MPR (dB)            |     |
| 80                      | QPSK       | 1       | 1         | 10.43                 | 10.45                    | 10.40                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 632668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3498.98               |                          | 3499.98                |                     | MPR (dB)            |     |
| 80                      | QPSK       | 1       | 1         | 10.39                 | 10.40                    | 10.41                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 632334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3496.98               |                          | 3498.98                |                     | MPR (dB)            |     |
| 70                      | QPSK       | 1       | 1         | 10.41                 | 10.42                    | 10.47                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 632000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3496                  |                          | 3499.98                |                     | MPR (dB)            |     |
| 60                      | QPSK       | 1       | 1         | 10.45                 | 10.45                    | 10.45                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 631666                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 50                      | QPSK       | 1       | 1         | 10.47                 | 10.45                    | 10.46                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 631334                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 40                      | QPSK       | 1       | 1         | 10.41                 | 10.43                    | 10.41                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 631000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 30                      | QPSK       | 1       | 1         | 10.41                 | 10.39                    | 10.40                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 20                      | QPSK       | 1       | 1         | 10.39                 | 10.38                    | 10.44                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 630332                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 15                      | QPSK       | 1       | 1         | 10.44                 | 10.41                    | 10.46                  | 11.5                | 0.0                 |     |
| Channel                 |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) |     |
| Frequency (MHz)         |            |         |           | 3495.92               |                          | 3499.98                |                     | MPR (dB)            |     |
| 10                      | QPSK       | 1       | 1         | 10.40                 | 10.43                    | 10.45                  | 11.5                | 0.0                 |     |

| Part270_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 10.32                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 10.35                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 10.32                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 10.31                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 10.36                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 10.26                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 10.34                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                       | 10.40                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 10.29                    |                        | 11.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 10.38                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 10.33                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 10.36                    |                        | 11.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 10.37                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 10.32                    |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         |                       | 10.26                    |                        | 11.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 10.38                    |                        | 11.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 10.38                    |                        | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               | (dB)     |  |
| 90                      | QPSK       | 1       | 1         | 10.36                 | 10.36                    | 10.33                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 10.33                 | 10.38                    | 10.32                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               | (dB)     |  |
| 70                      | QPSK       | 1       | 1         | 10.37                 | 10.35                    | 10.29                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3740.02               | 3750                     | 3749.98                | (dBm)               | (dB)     |  |
| 60                      | QPSK       | 1       | 1         | 10.32                 | 10.35                    | 10.30                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               | (dB)     |  |
| 50                      | QPSK       | 1       | 1         | 10.33                 | 10.37                    | 10.35                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |  |
| 40                      | QPSK       | 1       | 1         | 10.35                 | 10.35                    | 10.31                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                | (dBm)               | (dB)     |  |
| 30                      | QPSK       | 1       | 1         | 10.31                 | 10.36                    | 10.35                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               | (dB)     |  |
| 20                      | QPSK       | 1       | 1         | 10.34                 | 10.34                    | 10.33                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652662                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3750                     | 3792.48                | (dBm)               | (dB)     |  |
| 15                      | QPSK       | 1       | 1         | 10.38                 | 10.31                    | 10.29                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 645000                | 650000                   | 655000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   | (dBm)               | (dB)     |  |
| 10                      | QPSK       | 1       | 1         | 10.34                 | 10.30                    | 10.30                  | 11.5                | 0.0      |  |





| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |          |     |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 1       | 1         | 12.16                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 1       | 137       | 12.19                 |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 1       | 271       | 12.20                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 135     | 0         | 12.18                 |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 135     | 69        | 12.16                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 135     | 138       | 12.15                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 270     | 0         | 12.16                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 1       | 1         | 12.20                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 1       | 137       | 12.18                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 1       | 271       | 12.16                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 135     | 0         | 12.22                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 135     | 69        | 12.22                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 135     | 138       | 12.12                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 270     | 0         | 12.15                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 16QAM      | 1       | 1         | 12.18                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 64QAM      | 1       | 1         | 12.22                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 256QAM     | 1       | 1         | 12.11                 |                          |                        |                     | 13.5     | 0.0 |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dB)                |          |     |  |
| 80                | QPSK       | 1       | 1         | 12.19                 | 12.23                    | 12.16                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3496.02               | 3499.98                  | 3510                   | (dB)                |          |     |  |
| 80                | QPSK       | 1       | 1         | 12.21                 | 12.20                    | 12.21                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dB)                |          |     |  |
| 70                | QPSK       | 1       | 1         | 12.16                 | 12.16                    | 12.19                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3518.98                | (dB)                |          |     |  |
| 60                | QPSK       | 1       | 1         | 12.18                 | 12.23                    | 12.15                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dB)                |          |     |  |
| 50                | QPSK       | 1       | 1         | 12.19                 | 12.15                    | 12.21                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dB)                |          |     |  |
| 40                | QPSK       | 1       | 1         | 12.21                 | 12.16                    | 12.16                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dB)                |          |     |  |
| 30                | QPSK       | 1       | 1         | 12.20                 | 12.17                    | 12.21                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dB)                |          |     |  |
| 20                | QPSK       | 1       | 1         | 12.22                 | 12.18                    | 12.15                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.48                | (dB)                |          |     |  |
| 15                | QPSK       | 1       | 1         | 12.21                 | 12.18                    | 12.16                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dB)                |          |     |  |
| 10                | QPSK       | 1       | 1         | 12.18                 | 12.18                    | 12.20                  | 13.5                | 0.0      |     |  |

| Part27O_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel           |            |         |           | 650000                |                          | 3750                   |                     |          |     |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 1       | 1         | 12.48                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 1       | 137       | 12.52                 |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 1       | 271       | 12.54                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 135     | 0         | 12.53                 |                          |                        |                     |          |     |  |
| 100               | Pl2 BPSK   | 135     | 69        | 12.54                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 135     | 138       | 12.62                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | Pl2 BPSK   | 270     | 0         | 12.51                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 1       | 1         | 12.53                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 1       | 137       | 12.55                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 1       | 271       | 12.57                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 135     | 0         | 12.53                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 135     | 69        | 12.55                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | QPSK       | 135     | 138       | 12.51                 |                          |                        |                     |          |     |  |
| 100               | QPSK       | 270     | 0         | 12.47                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 16QAM      | 1       | 1         | 12.50                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 64QAM      | 1       | 1         | 12.57                 |                          |                        |                     | 13.5     | 0.0 |  |
| 100               | 256QAM     | 1       | 1         | 12.56                 |                          |                        |                     | 13.5     | 0.0 |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3750                     | 3754.98                | (dB)                |          |     |  |
| 90                | QPSK       | 1       | 1         | 12.61                 | 12.53                    | 12.60                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.98                | (dB)                |          |     |  |
| 80                | QPSK       | 1       | 1         | 12.56                 | 12.60                    | 12.55                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | (dB)                |          |     |  |
| 70                | QPSK       | 1       | 1         | 12.55                 | 12.52                    | 12.58                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3742.02               | 3750                     | 3761.98                | (dB)                |          |     |  |
| 60                | QPSK       | 1       | 1         | 12.56                 | 12.61                    | 12.57                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.98                | (dB)                |          |     |  |
| 50                | QPSK       | 1       | 1         | 12.56                 | 12.53                    | 12.59                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | (dB)                |          |     |  |
| 40                | QPSK       | 1       | 1         | 12.55                 | 12.58                    | 12.59                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | (dB)                |          |     |  |
| 30                | QPSK       | 1       | 1         | 12.60                 | 12.52                    | 12.61                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.98                | (dB)                |          |     |  |
| 20                | QPSK       | 1       | 1         | 12.58                 | 12.53                    | 12.56                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                | (dB)                |          |     |  |
| 15                | QPSK       | 1       | 1         | 12.60                 | 12.58                    | 12.60                  | 13.5                | 0.0      |     |  |
| Channel           |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR      |     |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | (dB)                |          |     |  |
| 10                | QPSK       | 1       | 1         | 12.61                 | 12.60                    | 12.55                  | 13.5                | 0.0      |     |  |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |                     |     |          |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|-----|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |     |          |
| Channel                |            |         |           | 633332                |                          | 3499.98                |                     |                     |     |          |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 100                    | Pl2 BPSK   | 1       | 1         | 12.16                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | Pl2 BPSK   | 1       | 137       | 12.19                 |                          |                        |                     |                     |     |          |
| 100                    | Pl2 BPSK   | 1       | 271       | 12.20                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | Pl2 BPSK   | 135     | 0         | 12.18                 |                          |                        |                     |                     |     |          |
| 100                    | Pl2 BPSK   | 135     | 69        | 12.16                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | Pl2 BPSK   | 135     | 138       | 12.15                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | Pl2 BPSK   | 270     | 0         | 12.16                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | QPSK       | 1       | 1         | 12.20                 |                          |                        |                     |                     |     |          |
| 100                    | QPSK       | 1       | 137       | 12.18                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | QPSK       | 1       | 271       | 12.16                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | QPSK       | 135     | 0         | 12.22                 |                          |                        |                     |                     |     |          |
| 100                    | QPSK       | 135     | 69        | 12.22                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | QPSK       | 135     | 138       | 12.12                 |                          |                        |                     |                     |     |          |
| 100                    | QPSK       | 270     | 0         | 12.15                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | 16QAM      | 1       | 1         | 12.18                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | 64QAM      | 1       | 1         | 12.22                 |                          |                        |                     | 13.5                | 0.0 |          |
| 100                    | 256QAM     | 1       | 1         | 12.11                 |                          |                        |                     | 13.5                | 0.0 |          |
| Channel                |            |         |           | 633000                |                          | 3499.98                |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 90                     | QPSK       | 1       | 1         | 12.19                 | 12.23                    | 12.16                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630668                |                          | 634300                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 80                     | QPSK       | 1       | 1         | 12.21                 | 12.20                    | 12.21                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630334                |                          | 634332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 70                     | QPSK       | 1       | 1         | 12.16                 | 12.18                    | 12.10                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630000                |                          | 634332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 60                     | QPSK       | 1       | 1         | 12.18                 | 12.23                    | 12.15                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 631334                |                          | 635332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 50                     | QPSK       | 1       | 1         | 12.19                 | 12.15                    | 12.21                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 631334                |                          | 635332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 40                     | QPSK       | 1       | 1         | 12.21                 | 12.16                    | 12.16                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 631000                |                          | 636668                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 30                     | QPSK       | 1       | 1         | 12.20                 | 12.17                    | 12.21                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630668                |                          | 633332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 20                     | QPSK       | 1       | 1         | 12.22                 | 12.18                    | 12.15                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630000                |                          | 633332                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 10                     | QPSK       | 1       | 1         | 12.21                 | 12.18                    | 12.16                  | 13.5                | 0.0                 |     |          |
| Channel                |            |         |           | 630334                |                          | 636668                 |                     | Tune-up limit (dBm) |     | MPR (dB) |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |                     |     |          |
| 10                     | QPSK       | 1       | 1         | 12.18                 | 12.18                    | 12.20                  | 13.5                | 0.0                 |     |          |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                    | PQ2 BPSK   | 1       | 1         |                       | 12.48                    |                        | 13.5                | 0.0      |  |
| 100                    | PQ2 BPSK   | 1       | 137       |                       | 12.52                    |                        |                     |          |  |
| 100                    | PQ2 BPSK   | 1       | 271       |                       | 12.54                    |                        | 13.5                | 0.0      |  |
| 100                    | PQ2 BPSK   | 135     | 0         |                       | 12.53                    |                        |                     |          |  |
| 100                    | PQ2 BPSK   | 135     | 69        |                       | 12.54                    |                        | 13.5                | 0.0      |  |
| 100                    | PQ2 BPSK   | 135     | 138       |                       | 12.62                    |                        |                     |          |  |
| 100                    | PQ2 BPSK   | 270     | 0         |                       | 12.51                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 12.63                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 12.55                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 12.57                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 12.53                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 12.55                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 12.51                    |                        | 13.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 12.47                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 12.50                    |                        | 13.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 12.57                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 12.56                    |                        | 13.5                | 0.0      |  |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 12.61                 | 12.53                    | 12.60                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 12.56                 | 12.60                    | 12.55                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 648900                | 650000                   | 651100                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 12.55                 | 12.52                    | 12.58                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.02               | 3750                     | 3749.98                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 12.56                 | 12.61                    | 12.57                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 12.56                 | 12.53                    | 12.59                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3760                   |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 12.55                 | 12.58                    | 12.59                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 12.60                 | 12.52                    | 12.61                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3713.01               | 3750                     | 3786.99                |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 12.58                 | 12.53                    | 12.56                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 650000                   | 652632                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3752.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 12.60                 | 12.59                    | 12.60                  | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 12.61                 | 12.60                    | 12.55                  | 13.5                | 0.0      |  |



| Band 2_Ant 0    |            |        |           |                     |                      |                     |                   |                   |  |  |  |
|-----------------|------------|--------|-----------|---------------------|----------------------|---------------------|-------------------|-------------------|--|--|--|
| BW [MHz]        | Modulation | RF Sub | RF Offset | Power Low Ch / Freq | Power High Ch / Freq | Power Max Ch / Freq | Turn-up init (dB) | Turn-up rate (dB) |  |  |  |
| Channel         |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| 20              | QPSK       | 1      | 0         | 22.79               | 22.89                | 22.83               | 24                | 0                 |  |  |  |
| 20              | QPSK       | 1      | 49        | 22.81               | 22.90                | 22.84               | 24                | 0                 |  |  |  |
| 20              | QPSK       | 50     | 0         | 22.79               | 22.89                | 22.83               | 24                | 0                 |  |  |  |
| 20              | QPSK       | 50     | 49        | 22.80               | 22.89                | 22.81               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 1      | 0         | 22.82               | 22.91                | 22.86               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 1      | 49        | 22.88               | 22.93                | 22.88               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 50     | 0         | 22.82               | 22.91                | 22.86               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 50     | 24        | 22.79               | 22.89                | 22.86               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 100    | 0         | 22.88               | 22.92                | 22.85               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 100    | 49        | 22.88               | 22.92                | 22.85               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 1      | 0         | 22.82               | 22.90                | 22.79               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 1      | 49        | 22.81               | 22.94                | 22.84               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 50     | 0         | 22.81               | 22.94                | 22.84               | 24                | 0                 |  |  |  |
| 20              | ISQAM      | 50     | 24        | 21.74               | 21.80                | 21.76               | 23                | 1                 |  |  |  |
| 20              | ISQAM      | 100    | 0         | 21.76               | 21.81                | 21.79               | 23                | 1                 |  |  |  |
| 20              | ISQAM      | 100    | 49        | 21.82               | 21.94                | 21.87               | 23                | 1                 |  |  |  |
| 20              | ISQAM      | 1      | 49        | 19.48               | 19.54                | 19.51               | 21                | 3                 |  |  |  |
| 20              | ISQAM      | 1      | 99        | 19.54               | 19.56                | 19.46               | 21                | 3                 |  |  |  |
| 20              | ISQAM      | 50     | 0         | 19.52               | 19.58                | 19.48               | 21                | 3                 |  |  |  |
| 20              | ISQAM      | 50     | 24        | 19.52               | 19.55                | 19.53               | 21                | 3                 |  |  |  |
| 20              | ISQAM      | 100    | 0         | 19.54               | 19.57                | 19.51               | 21                | 3                 |  |  |  |
| Channel         |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| 16              | QPSK       | 1      | 0         | 22.77               | 22.84                | 22.80               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 1      | 49        | 22.77               | 22.84                | 22.80               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 1      | 74        | 22.77               | 22.88                | 22.80               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 36     | 0         | 22.79               | 22.81                | 22.80               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 36     | 49        | 22.86               | 22.88                | 22.80               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 36     | 99        | 22.71               | 22.81                | 22.75               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 75     | 0         | 22.80               | 22.86                | 22.87               | 24                | 0                 |  |  |  |
| 16              | QPSK       | 75     | 49        | 22.79               | 22.86                | 22.81               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 1      | 0         | 22.72               | 22.80                | 22.81               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 1      | 37        | 22.77               | 22.84                | 22.77               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 1      | 74        | 22.81               | 22.87                | 22.79               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 36     | 20        | 22.77               | 22.83                | 22.81               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 36     | 39        | 22.80               | 22.86                | 22.85               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 75     | 0         | 22.76               | 22.82                | 22.76               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 1      | 0         | 22.71               | 22.87                | 22.76               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 1      | 37        | 22.86               | 22.85                | 22.81               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 74     | 22        | 22.75               | 22.80                | 22.76               | 24                | 0                 |  |  |  |
| 16              | ISQAM      | 36     | 0         | 21.86               | 21.91                | 21.58               | 23                | 1                 |  |  |  |
| 16              | ISQAM      | 36     | 20        | 21.58               | 21.66                | 21.58               | 23                | 1                 |  |  |  |
| 16              | ISQAM      | 36     | 49        | 21.64               | 21.73                | 21.64               | 23                | 1                 |  |  |  |
| 16              | ISQAM      | 75     | 0         | 21.74               | 21.80                | 21.68               | 23                | 1                 |  |  |  |
| 16              | ISQAM      | 1      | 0         | 19.38               | 19.44                | 19.37               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 1      | 37        | 19.47               | 19.44                | 19.46               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 1      | 74        | 19.43               | 19.54                | 19.44               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 36     | 0         | 19.49               | 19.51                | 19.46               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 36     | 20        | 19.45               | 19.44                | 19.48               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 36     | 39        | 19.46               | 19.53                | 19.38               | 21                | 3                 |  |  |  |
| 16              | ISQAM      | 75     | 0         | 19.47               | 19.51                | 19.40               | 21                | 3                 |  |  |  |
| Channel         |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| 5               | QPSK       | 1      | 0         | 22.85               | 22.87                | 22.76               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 1      | 49        | 22.76               | 22.85                | 22.80               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 1      | 24        | 22.76               | 22.79                | 22.74               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 12     | 0         | 22.80               | 22.86                | 22.79               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 12     | 49        | 22.72               | 22.79                | 22.76               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 12     | 13        | 22.70               | 22.79                | 22.79               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 25     | 0         | 22.86               | 22.89                | 22.87               | 24                | 0                 |  |  |  |
| 5               | QPSK       | 25     | 49        | 22.74               | 22.80                | 22.80               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 1      | 12        | 22.78               | 22.91                | 22.80               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 1      | 24        | 22.83               | 22.93                | 22.86               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 1      | 49        | 22.86               | 22.86                | 22.78               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 12     | 7         | 22.70               | 22.87                | 22.84               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 12     | 13        | 22.76               | 22.87                | 22.84               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 1      | 0         | 22.76               | 22.83                | 22.69               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 1      | 12        | 22.86               | 22.91                | 22.80               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 24     | 22        | 22.74               | 22.84                | 22.74               | 24                | 0                 |  |  |  |
| 5               | ISQAM      | 12     | 0         | 21.84               | 21.85                | 21.58               | 23                | 1                 |  |  |  |
| 5               | ISQAM      | 12     | 7         | 21.83               | 21.95                | 21.55               | 23                | 1                 |  |  |  |
| 5               | ISQAM      | 12     | 13        | 21.85               | 21.73                | 21.75               | 23                | 1                 |  |  |  |
| 5               | ISQAM      | 25     | 0         | 21.70               | 21.75                | 21.71               | 23                | 1                 |  |  |  |
| 5               | ISQAM      | 1      | 0         | 19.41               | 19.47                | 19.37               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 1      | 12        | 19.48               | 19.47                | 19.46               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 1      | 24        | 19.43               | 19.54                | 19.44               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 12     | 0         | 19.49               | 19.51                | 19.46               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 12     | 7         | 19.49               | 19.53                | 19.48               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 12     | 13        | 19.41               | 19.52                | 19.44               | 21                | 3                 |  |  |  |
| 5               | ISQAM      | 25     | 0         | 19.45               | 19.54                | 19.42               | 21                | 3                 |  |  |  |
| Channel         |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| 3               | QPSK       | 1      | 0         | 22.81               | 22.83                | 22.78               | 24                | 0                 |  |  |  |
| 3               | QPSK       | 1      | 48        | 22.74               | 22.80                | 22.83               | 24                | 0                 |  |  |  |
| 3               | QPSK       | 1      | 14        | 22.76               | 22.84                | 22.78               | 24                | 0                 |  |  |  |
| 3               | QPSK       | 8      | 0         | 22.86               | 22.87                | 22.79               | 24                | 0                 |  |  |  |
| 3               | QPSK       | 8      | 7         | 22.78               | 22.85                | 22.77               | 24                | 0                 |  |  |  |
| 3               | QPSK       | 1      | 0         | 22.76               | 22.88                | 22.84               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 1      | 0         | 22.86               | 22.91                | 22.78               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 1      | 14        | 22.82               | 22.91                | 22.82               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 8      | 4         | 22.72               | 22.86                | 22.84               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 8      | 7         | 22.74               | 22.87                | 22.82               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 1      | 0         | 22.74               | 22.84                | 22.79               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 1      | 14        | 22.73               | 22.88                | 22.71               | 24                | 0                 |  |  |  |
| 3               | ISQAM      | 8      | 0         | 21.82               | 21.98                | 21.79               | 23                | 1                 |  |  |  |
| 3               | ISQAM      | 8      | 7         | 21.83               | 21.87                | 21.68               | 23                | 1                 |  |  |  |
| 3               | ISQAM      | 1      | 0         | 21.69               | 21.76                | 21.70               | 23                | 1                 |  |  |  |
| 3               | ISQAM      | 1      | 14        | 21.68               | 21.80                | 21.68               | 23                | 1                 |  |  |  |
| 3               | ISQAM      | 8      | 0         | 19.40               | 19.52                | 19.43               | 21                | 3                 |  |  |  |
| 3               | ISQAM      | 8      | 4         | 19.48               | 19.52                | 19.44               | 21                | 3                 |  |  |  |
| 3               | ISQAM      | 8      | 7         | 19.44               | 19.58                | 19.45               | 21                | 3                 |  |  |  |
| 3               | ISQAM      | 15     | 0         | 19.45               | 19.54                | 19.45               | 21                | 3                 |  |  |  |
| Channel         |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                     |                   |                   |  |  |  |
| 1.4             | QPSK       | 1      | 0         | 22.81               | 22.87                | 22.78               | 24                | 0                 |  |  |  |
| 1.4             | QPSK       | 1      | 5         | 22.75               | 22.85                | 22.82               | 24                | 0                 |  |  |  |
| 1.4             | QPSK       | 3      | 0         | 22.71               | 22.86                | 22.79               | 24                | 0                 |  |  |  |
| 1.4             | QPSK       | 3      | 1         | 22.73               | 22.87                | 22.77               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 1      | 0         | 22.80               | 22.87                | 22.85               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 1      | 3         | 22.78               | 22.89                | 22.75               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 3      | 0         | 22.84               | 22.94                | 22.86               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 3      | 1         | 22.75               | 22.79                | 22.82               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 1      | 0         | 22.76               | 22.87                | 22.80               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 1      | 3         | 22.78               | 22.84                | 22.74               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 3      | 0         | 22.72               | 22.81                | 21.76               | 23                | 1                 |  |  |  |
| 1.4             | ISQAM      | 3      | 1         | 22.72               | 22.84                | 22.79               | 24                | 0                 |  |  |  |
| 1.4             | ISQAM      | 1      | 0         | 19.40               | 19.50                | 19.42               | 21                | 3                 |  |  |  |
| 1.4             | ISQAM      | 1      | 3         | 19.48               | 19.52                | 19.44               | 21                | 3                 |  |  |  |
| 1.4             | ISQAM      | 3      | 0         | 19.42               | 19.47                | 19.42               | 21                | 3                 |  |  |  |

| Band 4_Ant 1 |            |         |           |             |             |             |             |               |          |   |
|--------------|------------|---------|-----------|-------------|-------------|-------------|-------------|---------------|----------|---|
| RF [MHz]     | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Power [dBm] | Transmit (dB) | MPR (dB) |   |
| Channel      |            |         |           |             |             |             |             |               |          |   |
| 30           | QPSK       | 1       | 0         | 17.75       | 17.02       | 17.65       |             |               |          |   |
| 30           | QPSK       | 1       | 49        | 23.34       | 23.35       | 23.33       |             |               | 24       | 0 |
| 30           | QPSK       | 1       | 99        | 23.78       | 23.89       | 23.90       |             |               |          |   |
| 30           | QPSK       | 50      | 24        | 22.76       | 22.79       | 22.82       |             |               |          |   |
| 30           | QPSK       | 50      | 24        | 22.76       | 22.79       | 22.82       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 22.71       | 22.81       | 22.76       |             |               |          |   |
| 30           | 16QAM      | 1       | 49        | 22.74       | 22.90       | 22.88       |             |               | 24       | 0 |
| 30           | 16QAM      | 1       | 99        | 22.74       | 22.90       | 22.88       |             |               |          |   |
| 30           | 16QAM      | 50      | 0         | 21.95       | 22.23       | 21.90       |             |               |          |   |
| 30           | 16QAM      | 50      | 24        | 21.92       | 22.17       | 21.84       |             |               | 23       | 1 |
| 30           | 16QAM      | 100     | 0         | 21.97       | 22.20       | 21.88       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 21.97       | 22.20       | 21.91       |             |               |          |   |
| 30           | 16QAM      | 1       | 49        | 21.98       | 22.14       | 21.83       |             |               | 23       | 1 |
| 30           | 16QAM      | 1       | 99        | 22.02       | 22.20       | 21.85       |             |               |          |   |
| 30           | 16QAM      | 50      | 0         | 21.01       | 21.15       | 20.91       |             |               |          |   |
| 30           | 16QAM      | 50      | 24        | 21.04       | 21.23       | 20.93       |             |               | 22       | 2 |
| 30           | 16QAM      | 50      | 99        | 21.07       | 21.14       | 20.86       |             |               |          |   |
| 30           | 16QAM      | 100     | 0         | 21.05       | 21.17       | 20.84       |             |               |          |   |
| 30           | 256QAM     | 1       | 0         | 18.90       | 19.15       | 18.84       |             |               | 20       |   |
| 30           | 256QAM     | 1       | 49        | 18.98       | 19.18       | 18.85       |             |               |          |   |
| 30           | 256QAM     | 1       | 99        | 18.98       | 19.18       | 18.85       |             |               |          |   |
| 30           | 256QAM     | 50      | 24        | 19.05       | 19.22       | 18.68       |             |               |          |   |
| 30           | 256QAM     | 50      | 99        | 18.98       | 19.22       | 18.92       |             |               |          |   |
| 30           | 256QAM     | 100     | 0         | 18.98       | 19.22       | 18.92       |             |               |          |   |
| Channel      |            |         |           |             |             |             |             |               |          |   |
| 30           | QPSK       | 1       | 0         | 17.75       | 17.02       | 17.65       |             | Transmit (dB) | MPR (dB) |   |
| 30           | QPSK       | 1       | 37        | 22.75       | 22.96       | 22.76       |             |               | 24       | 0 |
| 30           | QPSK       | 1       | 74        | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 1       | 111       | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 36      | 20        | 22.68       | 22.84       | 22.65       |             |               |          |   |
| 30           | QPSK       | 36      | 59        | 22.68       | 22.88       | 22.68       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 22.71       | 22.81       | 22.76       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 22.62       | 22.80       | 22.81       |             |               | 24       | 0 |
| 30           | 16QAM      | 1       | 74        | 22.62       | 22.80       | 22.81       |             |               |          |   |
| 30           | 16QAM      | 36      | 20        | 21.93       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.97       | 22.15       | 21.87       |             |               | 23       | 1 |
| 30           | 16QAM      | 50      | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 21.99       | 22.15       | 21.83       |             |               | 23       | 1 |
| 30           | 16QAM      | 1       | 74        | 21.94       | 22.18       | 21.76       |             |               |          |   |
| 30           | 16QAM      | 36      | 0         | 20.99       | 21.04       | 20.87       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.02       | 21.05       | 20.76       |             |               | 22       | 2 |
| 30           | 16QAM      | 75      | 0         | 21.02       | 21.06       | 20.76       |             |               |          |   |
| 30           | 256QAM     | 1       | 0         | 18.98       | 19.04       | 18.76       |             |               | 20       | 4 |
| 30           | 256QAM     | 1       | 74        | 18.89       | 19.11       | 18.85       |             |               |          |   |
| 30           | 256QAM     | 1       | 111       | 18.93       | 19.12       | 18.83       |             |               |          |   |
| 30           | 256QAM     | 36      | 20        | 18.95       | 19.16       | 18.73       |             |               | 20       | 4 |
| 30           | 256QAM     | 36      | 59        | 18.89       | 19.20       | 18.81       |             |               |          |   |
| Channel      |            |         |           |             |             |             |             |               |          |   |
| 30           | QPSK       | 1       | 0         | 17.75       | 17.02       | 17.65       |             | Transmit (dB) | MPR (dB) |   |
| 30           | QPSK       | 1       | 37        | 22.75       | 22.96       | 22.76       |             |               | 24       | 0 |
| 30           | QPSK       | 1       | 74        | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 1       | 111       | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 36      | 20        | 22.68       | 22.84       | 22.65       |             |               |          |   |
| 30           | QPSK       | 36      | 59        | 22.68       | 22.88       | 22.68       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 22.71       | 22.81       | 22.76       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 22.62       | 22.80       | 22.81       |             |               | 24       | 0 |
| 30           | 16QAM      | 1       | 74        | 22.62       | 22.80       | 22.81       |             |               |          |   |
| 30           | 16QAM      | 36      | 20        | 21.93       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.97       | 22.15       | 21.87       |             |               | 23       | 1 |
| 30           | 16QAM      | 50      | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 21.99       | 22.15       | 21.83       |             |               | 23       | 1 |
| 30           | 16QAM      | 1       | 74        | 21.94       | 22.18       | 21.76       |             |               |          |   |
| 30           | 16QAM      | 36      | 0         | 20.99       | 21.04       | 20.87       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.02       | 21.05       | 20.76       |             |               | 22       | 2 |
| 30           | 16QAM      | 75      | 0         | 21.02       | 21.06       | 20.76       |             |               |          |   |
| 30           | 256QAM     | 1       | 0         | 18.98       | 19.04       | 18.76       |             |               | 20       | 4 |
| 30           | 256QAM     | 1       | 25        | 18.93       | 19.04       | 18.84       |             |               |          |   |
| 30           | 256QAM     | 1       | 49        | 18.93       | 19.04       | 18.84       |             |               |          |   |
| 30           | 256QAM     | 36      | 20        | 18.95       | 19.16       | 18.73       |             |               | 20       | 4 |
| 30           | 256QAM     | 36      | 59        | 18.89       | 19.19       | 18.81       |             |               |          |   |
| 30           | 256QAM     | 50      | 0         | 18.98       | 19.19       | 18.89       |             |               |          |   |
| Channel      |            |         |           |             |             |             |             |               |          |   |
| 30           | QPSK       | 1       | 0         | 17.75       | 17.02       | 17.65       |             | Transmit (dB) | MPR (dB) |   |
| 30           | QPSK       | 1       | 37        | 22.75       | 22.96       | 22.76       |             |               | 24       | 0 |
| 30           | QPSK       | 1       | 74        | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 1       | 111       | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 36      | 20        | 22.68       | 22.84       | 22.65       |             |               |          |   |
| 30           | QPSK       | 36      | 59        | 22.68       | 22.88       | 22.68       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 22.71       | 22.81       | 22.76       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 22.62       | 22.80       | 22.81       |             |               | 24       | 0 |
| 30           | 16QAM      | 1       | 74        | 22.62       | 22.80       | 22.81       |             |               |          |   |
| 30           | 16QAM      | 36      | 20        | 21.93       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.97       | 22.15       | 21.87       |             |               | 23       | 1 |
| 30           | 16QAM      | 50      | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 21.99       | 22.15       | 21.83       |             |               | 23       | 1 |
| 30           | 16QAM      | 1       | 74        | 21.94       | 22.18       | 21.76       |             |               |          |   |
| 30           | 16QAM      | 36      | 0         | 20.99       | 21.04       | 20.87       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.02       | 21.05       | 20.76       |             |               | 22       | 2 |
| 30           | 16QAM      | 75      | 0         | 21.02       | 21.06       | 20.76       |             |               |          |   |
| 30           | 256QAM     | 1       | 0         | 18.98       | 19.04       | 18.76       |             |               | 20       | 4 |
| 30           | 256QAM     | 1       | 12        | 18.90       | 19.11       | 18.78       |             |               |          |   |
| 30           | 256QAM     | 1       | 25        | 18.93       | 19.12       | 18.83       |             |               |          |   |
| 30           | 256QAM     | 36      | 20        | 18.95       | 19.16       | 18.73       |             |               | 20       | 4 |
| 30           | 256QAM     | 36      | 59        | 18.89       | 19.15       | 18.79       |             |               |          |   |
| 30           | 256QAM     | 50      | 0         | 18.98       | 19.15       | 18.79       |             |               |          |   |
| Channel      |            |         |           |             |             |             |             |               |          |   |
| 30           | QPSK       | 1       | 0         | 17.75       | 17.02       | 17.65       |             | Transmit (dB) | MPR (dB) |   |
| 30           | QPSK       | 1       | 37        | 22.75       | 22.96       | 22.76       |             |               | 24       | 0 |
| 30           | QPSK       | 1       | 74        | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 1       | 111       | 22.62       | 22.88       | 22.78       |             |               |          |   |
| 30           | QPSK       | 36      | 20        | 22.68       | 22.84       | 22.65       |             |               |          |   |
| 30           | QPSK       | 36      | 59        | 22.68       | 22.88       | 22.68       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 22.71       | 22.81       | 22.76       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 22.62       | 22.80       | 22.81       |             |               | 24       | 0 |
| 30           | 16QAM      | 1       | 74        | 22.62       | 22.80       | 22.81       |             |               |          |   |
| 30           | 16QAM      | 36      | 20        | 21.93       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.97       | 22.15       | 21.87       |             |               | 23       | 1 |
| 30           | 16QAM      | 50      | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 0         | 21.98       | 22.14       | 21.80       |             |               |          |   |
| 30           | 16QAM      | 1       | 37        | 21.99       | 22.15       | 21.83       |             |               | 23       | 1 |
| 30           | 16QAM      | 1       | 74        | 21.94       | 22.18       | 21.76       |             |               |          |   |
| 30           | 16QAM      | 36      | 0         | 20.99       | 21.04       | 20.87       |             |               |          |   |
| 30           | 16QAM      | 36      | 59        | 21.02       | 21.05       | 20.76       |             |               | 22       | 2 |
| 30           | 16QAM      | 75      | 0         | 21.02       | 21.06       | 20.76       |             |               |          |   |
| 30           | 256QAM     | 1       | 0         | 18.98       | 19.04       | 18.76       |             |               | 20       | 4 |
| 30           | 256QAM     | 1       | 14        | 18.94       | 19.10       | 18.84       |             |               |          |   |
| 30           | 256QAM     | 1       | 26        | 18.91       | 19.07       | 18.81       |             |               |          |   |
| 30           | 256QAM     | 36      | 20        | 18.95       | 19.16       | 18.73       |             |               | 20       | 4 |
| 30           | 256QAM     | 36      | 59        | 18.89       | 19.12       | 18.82       |             |               |          |   |
| 30           | 256QAM     | 50      | 0         | 18.97       | 19.18       | 18.89       |             |               |          |   |
| 30           | 256QAM     | 50      | 24        | 18.91       | 19.23       | 18.86       |             |               | 20       | 4 |

| Band 25_Ant 0   |            |         |           |            |            |            |            |               |                |          |
|-----------------|------------|---------|-----------|------------|------------|------------|------------|---------------|----------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power (mW) | Power (mW) | Power (mW) | Power (mW) | Turn-on (dBm) | Turn-off (dBm) | APR (dB) |
| Channel         |            |         |           |            |            |            |            |               |                |          |
| Frequency (MHz) |            |         |           | 1698       | 1698       | 1698       | 1698       |               |                |          |
| 5               | OFDM       | 1       | 0         | 23.23      | 23.23      | 23.23      | 23.23      |               |                |          |
| 5               | OFDM       | 1       | 48        | 23.23      | 23.23      | 23.23      | 23.23      |               |                | 24       |
| 20              | OFDM       | 1       | 59        | 23.28      | 23.47      | 23.31      |            |               |                |          |
| 20              | OFDM       | 1       | 94        | 23.28      | 23.47      | 23.31      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 23.29      | 23.44      | 23.25      |            |               |                | 24       |
| 20              | OFDM       | 50      | 50        | 23.28      | 23.38      | 23.19      |            |               |                |          |
| 20              | OFDM       | 50      | 74        | 23.28      | 23.38      | 23.19      |            |               |                |          |
| 20              | OFDM       | 1       | 0         | 23.33      | 23.43      | 23.18      |            |               |                |          |
| 20              | OFDM       | 1       | 49        | 23.35      | 23.49      | 23.17      |            |               |                | 24       |
| 20              | OFDM       | 1       | 94        | 23.35      | 23.49      | 23.17      |            |               |                |          |
| 20              | OFDM       | 50      | 0         | 22.64      | 22.68      | 22.48      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 22.62      | 22.66      | 22.46      |            |               |                |          |
| 20              | OFDM       | 50      | 50        | 22.62      | 22.66      | 22.46      |            |               |                | 23       |
| 20              | OFDM       | 50      | 74        | 22.62      | 22.66      | 22.46      |            |               |                |          |
| 20              | OFDM       | 100     | 0         | 22.62      | 22.70      | 22.45      |            |               |                |          |
| 20              | OFDM       | 1       | 0         | 22.62      | 22.63      | 22.47      |            |               |                |          |
| 20              | OFDM       | 1       | 49        | 22.62      | 22.63      | 22.47      |            |               |                | 23       |
| 20              | OFDM       | 1       | 94        | 22.62      | 22.63      | 22.47      |            |               |                |          |
| 20              | OFDM       | 1       | 99        | 22.63      | 22.63      | 22.44      |            |               |                |          |
| 20              | OFDM       | 50      | 0         | 21.68      | 21.68      | 21.45      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 21.67      | 21.72      | 21.44      |            |               |                |          |
| 20              | OFDM       | 50      | 50        | 21.68      | 21.71      | 21.44      |            |               |                | 22       |
| 20              | OFDM       | 50      | 74        | 21.67      | 21.67      | 21.47      |            |               |                |          |
| 20              | OFDM       | 100     | 0         | 21.61      | 21.67      | 21.47      |            |               |                |          |
| 20              | OFDM       | 1       | 0         | 19.67      | 19.72      | 19.49      |            |               |                |          |
| 20              | OFDM       | 1       | 49        | 19.62      | 19.65      | 19.46      |            |               |                | 20       |
| 20              | OFDM       | 1       | 94        | 19.62      | 19.65      | 19.46      |            |               |                |          |
| 20              | OFDM       | 50      | 0         | 19.56      | 19.64      | 19.44      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 19.56      | 19.64      | 19.44      |            |               |                |          |
| 20              | OFDM       | 50      | 50        | 19.56      | 19.64      | 19.44      |            |               |                |          |
| 20              | OFDM       | 50      | 74        | 19.56      | 19.64      | 19.44      |            |               |                |          |
| 20              | OFDM       | 100     | 0         | 19.54      | 19.68      | 19.49      |            |               |                |          |
| 20              | OFDM       | 1       | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 49        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 94        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 99        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 50        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 74        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 100     | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 49        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 94        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 1       | 99        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 24        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 50        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 50      | 74        | 19.58      | 19.72      | 19.48      |            |               |                |          |
| 20              | OFDM       | 100     | 0         | 19.58      | 19.72      | 19.48      |            |               |                |          |

| Band 25_Ant 1   |         |           |             |             |             |             |               |                |               |                |  |
|-----------------|---------|-----------|-------------|-------------|-------------|-------------|---------------|----------------|---------------|----------------|--|
| BW [Modulation] | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Power [dBm] | Turn-on [dBm] | Turn-off [dBm] | M [dB]        |                |  |
| Channel         |         |           |             |             |             |             |               |                |               |                |  |
| Frequency (MHz) |         |           | 1640        | 1640        | 1640        | 1640        | 1640          | 1640           |               |                |  |
| 16 QPSK         | 1       | 0         | 23.17       | 23.17       | 23.17       | 23.17       | 23.17         | 23.17          | 24            |                |  |
| 20 QPSK         | 1       | 99        | 23.12       | 23.17       | 22.84       |             |               |                |               |                |  |
| 20 QPSK         | 1       | 0         | 23.15       | 23.24       | 22.91       |             |               |                |               |                |  |
| 20 QPSK         | 50      | 24        | 22.98       | 22.13       | 21.99       |             |               |                |               |                |  |
| 20 QPSK         | 50      | 50        | 22.51       | 22.18       | 21.86       |             |               |                |               |                |  |
| 20 QPSK         | 100     | 0         | 22.15       | 22.18       | 21.86       |             |               |                |               |                |  |
| 20 16QAM        | 50      | 0         | 22.03       | 22.18       | 21.85       |             |               |                |               |                |  |
| 20 16QAM        | 50      | 50        | 22.00       | 22.18       | 21.85       |             |               |                | 23            |                |  |
| 20 16QAM        | 50      | 24        | 21.14       | 21.32       | 20.99       |             |               |                |               |                |  |
| 20 16QAM        | 100     | 0         | 21.14       | 21.32       | 21.02       |             |               |                | 22            |                |  |
| 20 16QAM        | 100     | 0         | 21.32       | 21.30       | 21.00       |             |               |                |               |                |  |
| 20 8QAM         | 50      | 0         | 21.30       | 21.31       | 20.98       |             |               |                |               |                |  |
| 20 8QAM         | 50      | 50        | 21.30       | 21.31       | 21.00       |             |               |                | 22            |                |  |
| 20 8QAM         | 50      | 24        | 21.30       | 21.30       | 21.03       |             |               |                |               |                |  |
| 20 8QAM         | 100     | 0         | 20.16       | 20.29       | 19.98       |             |               |                |               |                |  |
| 20 8QAM         | 100     | 0         | 20.16       | 20.29       | 19.98       |             |               |                |               |                |  |
| 20 8QAM         | 100     | 0         | 20.16       | 20.29       | 19.98       |             |               |                |               |                |  |
| 20 256QAM       | 50      | 0         | 18.10       | 18.32       | 17.98       |             |               |                | 19            |                |  |
| 20 256QAM       | 50      | 50        | 18.18       | 18.30       | 18.01       |             |               |                |               |                |  |
| 20 256QAM       | 50      | 24        | 18.13       | 18.29       | 18.00       |             |               |                | 19            |                |  |
| 20 256QAM       | 100     | 0         | 18.10       | 18.29       | 18.02       |             |               |                |               |                |  |
| 20 256QAM       | 100     | 0         | 18.10       | 18.33       | 18.01       |             |               |                |               |                |  |
| Channel         |         |           |             |             |             |             |               |                |               |                |  |
| Frequency (MHz) |         |           | 162.5       | 1640        | 1640        | 1640        | 1640          | 1640           | Turn-on [dBm] | Turn-off [dBm] |  |
| 16 QPSK         | 1       | 0         | 23.17       | 23.17       | 23.17       | 23.17       | 23.17         | 23.17          | 24            |                |  |
| 16 QPSK         | 36      | 0         | 23.14       | 23.10       | 22.89       |             |               |                |               |                |  |
| 16 QPSK         | 74      | 0         | 23.15       | 23.05       | 22.79       |             |               |                |               |                |  |
| 16 QPSK         | 36      | 26        | 22.55       | 22.08       | 21.81       |             |               |                |               |                |  |
| 16 QPSK         | 36      | 50        | 22.12       | 22.08       | 21.80       |             |               |                |               |                |  |
| 16 QPSK         | 36      | 0         | 22.12       | 22.08       | 21.80       |             |               |                |               |                |  |
| 16 16QAM        | 36      | 0         | 22.12       | 22.01       | 21.80       |             |               |                |               |                |  |
| 16 16QAM        | 36      | 26        | 22.05       | 21.89       | 21.82       |             |               |                |               |                |  |
| 16 16QAM        | 36      | 0         | 21.36       | 21.53       | 21.02       |             |               |                |               |                |  |
| 16 16QAM        | 36      | 26        | 21.25       | 21.11       | 20.97       |             |               |                | 22            |                |  |
| 16 16QAM        | 75      | 0         | 21.36       | 21.53       | 20.95       |             |               |                |               |                |  |
| 16 8QAM         | 36      | 0         | 21.26       | 21.04       | 20.90       |             |               |                |               |                |  |
| 16 8QAM         | 36      | 26        | 21.08       | 21.08       | 20.98       |             |               |                |               |                |  |
| 16 8QAM         | 74      | 21.26     | 21.10       | 20.98       |             |             |               |                |               |                |  |
| 16 8QAM         | 36      | 0         | 20.27       | 20.54       | 19.94       |             |               |                | 21            |                |  |
| 16 8QAM         | 36      | 26        | 20.27       | 20.59       | 19.94       |             |               |                |               |                |  |
| 16 8QAM         | 75      | 0         | 20.27       | 20.59       | 19.94       |             |               |                |               |                |  |
| 16 256QAM       | 36      | 0         | 18.21       | 18.35       | 17.92       |             |               |                |               |                |  |
| 16 256QAM       | 36      | 26        | 18.21       | 18.35       | 17.92       |             |               |                |               |                |  |
| 16 256QAM       | 74      | 21.26     | 18.24       | 18.09       | 17.96       |             |               |                |               |                |  |
| 16 256QAM       | 36      | 26        | 18.19       | 18.32       | 17.90       |             |               |                |               |                |  |
| 16 256QAM       | 36      | 26        | 18.26       | 18.08       | 18.00       |             |               |                |               |                |  |
| 16 256QAM       | 36      | 26        | 18.18       | 18.33       | 18.01       |             |               |                |               |                |  |
| Channel         |         |           |             |             |             |             |               |                |               |                |  |
| Frequency (MHz) |         |           | 162.5       | 1640        | 1640        | 1640        | 1640          | 1640           | Turn-on [dBm] | Turn-off [dBm] |  |
| 16 QPSK         | 1       | 0         | 23.17       | 23.17       | 23.17       | 23.17       | 23.17         | 23.17          | 24            |                |  |
| 16 QPSK         | 36      | 0         | 23.14       | 23.10       | 22.89       |             |               |                |               |                |  |
| 16 QPSK         | 74      | 0         | 23.15       | 23.05       | 22.84       |             |               |                |               |                |  |
| 16 QPSK         | 1       | 24        | 23.08       | 23.01       | 22.78       |             |               |                |               |                |  |
| 16 QPSK         | 12      | 0         | 22.52       | 22.05       | 21.86       |             |               |                |               |                |  |
| 16 QPSK         | 12      | 26        | 22.07       | 22.00       | 21.82       |             |               |                |               |                |  |
| 16 QPSK         | 12      | 13        | 22.14       | 22.06       | 21.77       |             |               |                |               |                |  |
| 16 QPSK         | 12      | 0         | 22.14       | 22.06       | 21.77       |             |               |                |               |                |  |
| 16 16QAM        | 12      | 0         | 22.14       | 22.01       | 21.81       |             |               |                |               |                |  |
| 16 16QAM        | 12      | 26        | 22.05       | 21.90       | 21.81       |             |               |                |               |                |  |
| 16 16QAM        | 12      | 13        | 22.13       | 21.04       | 20.95       |             |               |                | 22            |                |  |
| 16 16QAM        | 12      | 0         | 22.13       | 21.11       | 21.04       |             |               |                |               |                |  |
| 16 16QAM        | 26      | 0         | 21.21       | 21.07       | 20.97       |             |               |                |               |                |  |
| 16 16QAM        | 26      | 0         | 21.21       | 21.07       | 20.97       |             |               |                |               |                |  |
| 16 8QAM         | 12      | 0         | 21.23       | 21.07       | 20.92       |             |               |                | 22            |                |  |
| 16 8QAM         | 12      | 26        | 21.07       | 21.04       | 20.93       |             |               |                |               |                |  |
| 16 8QAM         | 12      | 13        | 20.25       | 20.16       | 19.96       |             |               |                | 21            |                |  |
| 16 8QAM         | 12      | 0         | 20.25       | 20.16       | 19.96       |             |               |                |               |                |  |
| 16 8QAM         | 26      | 0         | 20.24       | 20.14       | 19.96       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 0         | 18.22       | 18.07       | 17.99       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 26        | 18.26       | 18.03       | 17.96       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 13        | 18.26       | 18.07       | 17.96       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 0         | 18.05       | 18.05       | 17.99       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 7         | 18.19       | 18.09       | 17.91       |             |               |                |               |                |  |
| 16 256QAM       | 12      | 13        | 18.19       | 18.02       | 17.91       |             |               |                | 19            |                |  |
| 16 256QAM       | 12      | 13        | 18.18       | 18.09       | 17.91       |             |               |                |               |                |  |
| Channel         |         |           |             |             |             |             |               |                |               |                |  |
| Frequency (MHz) |         |           | 162.5       | 1640        | 1640        | 1643.3      | 1640          | 1640           | Turn-on [dBm] | Turn-off [dBm] |  |
| 1.4 QPSK        | 1       | 0         | 23.13       | 23.08       | 22.85       |             |               |                | 24            |                |  |
| 1.4 QPSK        | 1       | 14        | 23.08       | 23.03       | 22.77       |             |               |                |               |                |  |
| 1.4 QPSK        | 15      | 0         | 22.52       | 22.47       | 22.22       |             |               |                |               |                |  |
| 1.4 QPSK        | 8       | 7         | 22.98       | 22.91       | 22.65       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 7         | 22.90       | 22.80       | 21.78       |             |               |                |               |                |  |
| 1.4 16QAM       | 15      | 0         | 22.14       | 22.07       | 21.82       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 24        | 21.24       | 21.85       | 21.87       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 7         | 21.25       | 21.88       | 21.02       |             |               |                |               |                |  |
| 1.4 8QAM        | 8       | 4         | 21.22       | 21.07       | 20.88       |             |               |                |               |                |  |
| 1.4 8QAM        | 15      | 0         | 21.22       | 21.07       | 20.88       |             |               |                |               |                |  |
| 1.4 16QAM       | 15      | 0         | 21.27       | 21.85       | 20.92       |             |               |                |               |                |  |
| 1.4 8QAM        | 8       | 7         | 21.27       | 21.00       | 20.92       |             |               |                | 22            |                |  |
| 1.4 8QAM        | 8       | 7         | 20.27       | 20.14       | 19.93       |             |               |                |               |                |  |
| 1.4 8QAM        | 15      | 0         | 20.22       | 20.13       | 19.93       |             |               |                | 21            |                |  |
| 1.4 8QAM        | 8       | 7         | 20.24       | 20.88       | 19.95       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 20.26       | 20.16       | 19.90       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 20.27       | 20.16       | 19.90       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 18.30       | 17.99       | 17.94       |             |               |                | 19            |                |  |
| 1.4 256QAM      | 8       | 14        | 18.26       | 18.05       | 17.92       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 18.26       | 18.08       | 17.92       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 4         | 18.21       | 18.11       | 17.95       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 18.18       | 18.06       | 17.91       |             |               |                |               |                |  |
| 1.4 256QAM      | 15      | 0         | 18.27       | 18.13       | 17.99       |             |               |                |               |                |  |
| Channel         |         |           |             |             |             |             |               |                |               |                |  |
| Frequency (MHz) |         |           | 162.7       | 1640        | 1640        | 1643.3      | 1640          | 1640           | Turn-on [dBm] | Turn-off [dBm] |  |
| 1.4 QPSK        | 1       | 0         | 23.13       | 23.08       | 22.84       |             |               |                | 24            |                |  |
| 1.4 QPSK        | 1       | 14        | 23.08       | 23.05       | 22.78       |             |               |                |               |                |  |
| 1.4 QPSK        | 15      | 0         | 22.52       | 22.47       | 22.22       |             |               |                |               |                |  |
| 1.4 QPSK        | 8       | 7         | 22.91       | 23.04       | 22.74       |             |               |                | 23            |                |  |
| 1.4 16QAM       | 8       | 7         | 22.92       | 23.04       | 22.87       |             |               |                |               |                |  |
| 1.4 16QAM       | 15      | 0         | 22.12       | 21.90       | 21.79       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 24        | 21.26       | 21.93       | 21.90       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 7         | 21.23       | 21.90       | 21.87       |             |               |                | 23            |                |  |
| 1.4 16QAM       | 3       | 2         | 22.16       | 21.97       | 21.83       |             |               |                |               |                |  |
| 1.4 16QAM       | 15      | 0         | 22.16       | 21.97       | 21.83       |             |               |                |               |                |  |
| 1.4 16QAM       | 8       | 6         | 21.27       | 21.81       | 20.99       |             |               |                | 22            |                |  |
| 1.4 8QAM        | 3       | 2         | 21.28       | 21.11       | 20.95       |             |               |                |               |                |  |
| 1.4 8QAM        | 8       | 21        | 21.28       | 21.07       | 20.92       |             |               |                | 22            |                |  |
| 1.4 8QAM        | 8       | 7         | 20.28       | 20.17       | 20.92       |             |               |                |               |                |  |
| 1.4 8QAM        | 15      | 0         | 20.28       | 20.17       | 20.92       |             |               |                |               |                |  |
| 1.4 8QAM        | 8       | 6         | 21.25       | 21.03       | 20.97       |             |               |                | 21            |                |  |
| 1.4 256QAM      | 8       | 7         | 20.20       | 20.11       | 19.92       |             |               |                |               |                |  |
| 1.4 256QAM      | 8       | 7         | 18.28       | 18.08       | 17.94       |             |               |                | 19            |                |  |
| 1.4 256QAM      | 8       | 7         | 18.22       | 18.03       | 17.90       |             |               |                |               |                |  |
| 1.4 256QAM      | 15      | 0         | 18.25       | 18.09       | 17.96       |             |               |                |               |                |  |
| 1.4 256QAM      | 15      | 0         | 18.22       | 18.01       | 17.93       |             |               |                |               |                |  |

| Band 66_Ant 0   |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
|-----------------|-----------|-------------|-----------|---------------------|---------------------|----------------------|-------------------|-----------|--|--|--|--|--|--|--|--|
| RF [MHz]        | Module ID | RF Bw [MHz] | RF Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 1           | 0         | 23.05               | 23.09               | 23.83                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 1           | 49        | 23.06               | 23.08               | 23.85                |                   |           |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 1           | 99        | 23.91               | 23.91               | 22.87                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 50          | 24        | 23.96               | 23.93               | 23.85                |                   |           |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 50          | 50        | 23.95               | 23.92               | 22.87                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | QPRK      | 100         | 0         | 23.81               | 23.82               | 23.87                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 1           | 0         | 23.96               | 23.91               | 23.88                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 1           | 49        | 23.88               | 23.94               | 23.84                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 1           | 99        | 23.92               | 23.92               | 23.92                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 50          | 0         | 23.92               | 23.91               | 23.84                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 50          | 24        | 23.92               | 23.95               | 23.81                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 50          | 50        | 22.88               | 22.88               | 22.82                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 16QAM     | 100         | 0         | 23.92               | 23.88               | 23.83                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 1           | 0         | 23.98               | 23.90               | 23.82                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 1           | 49        | 22.84               | 22.85               | 22.85                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 1           | 99        | 23.92               | 23.92               | 23.92                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 50          | 0         | 21.92               | 21.93               | 21.88                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 50          | 24        | 21.82               | 21.96               | 21.93                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 50          | 50        | 21.83               | 21.92               | 21.88                | 24                | 0         |  |  |  |  |  |  |  |  |
| 20              | 64QAM     | 100         | 0         | 21.80               | 21.89               | 21.87                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 1           | 0         | 20.23               | 20.24               | 20.20                | 21                | 3         |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 1           | 49        | 20.18               | 20.18               | 20.10                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 1           | 99        | 20.17               | 20.15               | 20.07                | 21                | 3         |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 50          | 0         | 20.19               | 20.13               | 20.08                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 50          | 24        | 20.21               | 20.14               | 20.08                | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 50          | 50        | 20.15               | 20.19               | 20.14                |                   |           |  |  |  |  |  |  |  |  |
| 20              | 256QAM    | 100         | 0         | 20.08               | 20.18               | 20.07                |                   |           |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 1           | 0         | 22.94               | 22.92               | 22.88                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 1           | 37        | 22.97               | 22.91               | 22.86                |                   |           |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 1           | 74        | 22.81               | 22.86               | 22.77                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 36          | 0         | 23.00               | 23.84               | 23.80                |                   |           |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 36          | 20        | 22.99               | 22.87               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 36          | 36        | 23.03               | 23.98               | 22.77                |                   |           |  |  |  |  |  |  |  |  |
| 16              | QPRK      | 75          | 0         | 22.78               | 22.88               | 22.85                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 1           | 0         | 22.85               | 22.86               | 22.87                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 1           | 37        | 22.83               | 22.91               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 1           | 74        | 22.81               | 22.82               | 22.78                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 36          | 0         | 23.85               | 23.90               | 23.80                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 36          | 20        | 23.90               | 23.83               | 22.71                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 36          | 36        | 22.86               | 22.87               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | 16QAM     | 75          | 0         | 22.78               | 22.78               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 1           | 0         | 22.94               | 22.78               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 1           | 37        | 22.83               | 22.81               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 1           | 74        | 22.78               | 22.80               | 22.80                | 23                | 1         |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 36          | 0         | 21.78               | 21.91               | 21.89                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 36          | 20        | 21.76               | 21.81               | 21.80                | 21                | 3         |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 36          | 36        | 21.74               | 21.83               | 21.84                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 64QAM     | 75          | 0         | 21.67               | 21.83               | 21.86                | 21                | 3         |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 1           | 0         | 20.12               | 20.21               | 20.19                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 1           | 37        | 20.04               | 20.15               | 20.05                | 21                | 3         |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 1           | 74        | 20.05               | 20.10               | 19.99                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 36          | 0         | 20.17               | 20.08               | 20.02                | 21                | 3         |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 36          | 20        | 20.11               | 19.99               | 19.95                |                   |           |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 36          | 36        | 20.10               | 20.15               | 20.00                | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| 16              | 256QAM    | 75          | 0         | 20.01               | 20.13               | 19.87                |                   |           |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 1           | 0         | 22.93               | 22.92               | 22.88                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 1           | 25        | 22.92               | 22.94               | 22.86                |                   |           |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 1           | 49        | 22.90               | 22.96               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 25          | 0         | 23.90               | 23.89               | 23.87                |                   |           |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 25          | 12        | 23.90               | 23.90               | 23.87                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 25          | 25        | 22.84               | 22.92               | 22.84                |                   |           |  |  |  |  |  |  |  |  |
| 10              | QPRK      | 50          | 0         | 22.82               | 23.01               | 22.84                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 1           | 0         | 22.85               | 22.98               | 22.88                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 1           | 25        | 22.82               | 22.86               | 22.89                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 1           | 49        | 22.78               | 22.84               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 25          | 0         | 23.85               | 23.88               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 25          | 12        | 22.88               | 22.88               | 22.68                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 25          | 25        | 22.86               | 22.87               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | 16QAM     | 50          | 0         | 22.81               | 22.74               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 1           | 0         | 22.98               | 22.88               | 22.71                | 24                | 0         |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 1           | 25        | 22.87               | 22.91               | 22.83                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 1           | 49        | 22.87               | 22.90               | 22.86                | 23                | 1         |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 25          | 0         | 21.83               | 21.90               | 21.88                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 25          | 12        | 21.80               | 21.88               | 21.84                | 21                | 3         |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 25          | 25        | 21.82               | 21.87               | 21.87                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 64QAM     | 50          | 0         | 21.68               | 21.76               | 21.84                | 21                | 3         |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 1           | 0         | 20.02               | 20.14               | 20.14                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 1           | 25        | 20.12               | 20.10               | 19.99                | 21                | 3         |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 1           | 49        | 20.16               | 20.04               | 20.03                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 25          | 0         | 20.15               | 20.02               | 19.95                | 21                | 3         |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 25          | 12        | 20.10               | 19.99               | 19.97                |                   |           |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 25          | 25        | 20.10               | 20.08               | 20.06                | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| 10              | 256QAM    | 50          | 0         | 19.93               | 20.04               | 19.88                |                   |           |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 1           | 0         | 22.91               | 22.87               | 22.85                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 1           | 12        | 22.94               | 22.91               | 22.89                |                   |           |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 1           | 24        | 22.80               | 22.87               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 12          | 0         | 22.91               | 22.92               | 22.88                |                   |           |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 12          | 7         | 22.82               | 22.90               | 22.81                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 12          | 13        | 22.87               | 22.89               | 22.78                |                   |           |  |  |  |  |  |  |  |  |
| 5               | QPRK      | 25          | 0         | 22.77               | 22.87               | 22.82                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 1           | 0         | 22.92               | 22.87               | 22.87                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 1           | 12        | 22.80               | 22.85               | 22.70                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 1           | 24        | 22.82               | 22.86               | 22.83                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 12          | 0         | 22.83               | 22.96               | 22.73                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 12          | 7         | 22.84               | 22.94               | 22.83                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 12          | 13        | 22.77               | 22.88               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 25          | 0         | 22.77               | 22.88               | 22.79                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 25          | 12        | 22.80               | 22.88               | 22.71                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 25          | 25        | 22.80               | 22.81               | 22.73                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 16QAM     | 50          | 0         | 22.77               | 22.88               | 22.81                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 1           | 0         | 22.98               | 22.88               | 22.81                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 1           | 12        | 22.86               | 22.88               | 22.81                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 1           | 24        | 22.83               | 22.88               | 22.81                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 12          | 0         | 21.86               | 21.86               | 21.80                | 24                | 0         |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 12          | 7         | 21.78               | 21.79               | 21.78                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 12          | 13        | 21.85               | 21.79               | 21.79                | 23                | 1         |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 25          | 0         | 21.87               | 21.83               | 21.84                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 25          | 12        | 21.82               | 21.81               | 21.78                | 21                | 3         |  |  |  |  |  |  |  |  |
| 5               | 64QAM     | 25          | 25        | 21.82               | 21.81               | 21.78                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 1           | 0         | 20.14               | 20.13               | 20.07                | 21                | 3         |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 1           | 12        | 20.16               | 20.13               | 20.07                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 1           | 24        | 20.10               | 20.13               | 19.97                | 21                | 3         |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 12          | 0         | 20.15               | 20.08               | 19.95                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 12          | 7         | 20.10               | 20.08               | 19.95                | 21                | 3         |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 12          | 13        | 20.11               | 20.08               | 19.96                |                   |           |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 25          | 0         | 20.05               | 20.14               | 20.04                | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| 5               | 256QAM    | 25          | 12        | 20.05               | 20.14               | 20.04                |                   |           |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 0         | 23.02               | 23.02               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 8         | 23.06               | 22.97               | 22.78                |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 14        | 22.79               | 22.91               | 22.70                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 3           | 0         | 23.02               | 23.02               | 22.83                |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 3           | 1         | 23.03               | 22.97               | 22.73                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 8           | 7         | 22.92               | 22.87               | 22.73                |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 14          | 0         | 22.97               | 22.97               | 22.73                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 1           | 0         | 23.03               | 23.08               | 22.78                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 1           | 8         | 22.82               | 22.89               | 22.69                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 14          | 0         | 22.83               | 22.88               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 8           | 0         | 22.83               | 22.86               | 22.74                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 8           | 7         | 22.78               | 22.83               | 22.67                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 14          | 0         | 22.79               | 22.84               | 22.68                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 15          | 0         | 22.80               | 22.88               | 22.72                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 1           | 0         | 22.89               | 22.75               | 22.75                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 1           | 8         | 22.87               | 22.87               | 22.69                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 14          | 0         | 22.87               | 22.88               | 22.82                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 8           | 0         | 21.87               | 21.86               | 21.80                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 8           | 7         | 21.79               | 21.78               | 21.80                | 23                | 1         |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 8           | 14        | 21.76               | 21.78               | 21.87                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 64QAM     | 15          | 0         | 21.84               | 21.80               | 21.80                | 21                | 3         |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 1           | 0         | 20.17               | 20.18               | 20.07                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 1           | 8         | 20.15               | 20.15               | 20.00                | 21                | 3         |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 1           | 14        | 20.08               | 20.07               | 20.02                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 1           | 15        | 20.15               | 20.15               | 20.00                | 21                | 3         |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 8           | 0         | 20.15               | 20.08               | 20.03                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 8           | 7         | 20.03               | 20.08               | 20.03                | Turn-up Int. (dB) | MPFS (dB) |  |  |  |  |  |  |  |  |
| 14              | 256QAM    | 15          | 0         | 20.03               | 20.08               | 20.00                |                   |           |  |  |  |  |  |  |  |  |
| Channel         |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| Frequency (MHz) |           |             |           |                     |                     |                      |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 0         | 23.02               | 23.02               | 22.78                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 8         | 23.06               | 22.98               | 22.78                |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 1           | 14        | 22.79               | 22.91               | 22.70                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 3           | 0         | 23.02               | 23.02               | 22.83                |                   |           |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 3           | 1         | 23.03               | 22.97               | 22.73                | 24                | 0         |  |  |  |  |  |  |  |  |
| 14              | QPRK      | 8           | 7         | 22.92               | 22.84               | 22.74                |                   |           |  |  |  |  |  |  |  |  |
| 14              | 16QAM     | 1           | 0         | 23.00               | 23.08               | 22.84                | 24                |           |  |  |  |  |  |  |  |  |

| Band 48_Ant 4   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 22.92                 | 22.89                        | 22.88                         | 22.91                  | 24                  | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 23.04                 | 22.95                        | 22.99                         | 23.06                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 22.91                 | 22.87                        | 22.93                         | 22.89                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 21.90                 | 21.86                        | 21.86                         | 21.95                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 21.74                 | 21.75                        | 21.75                         | 21.71                  | 23                  | 1        |  |  |
| 20              | QPSK       | 50      | 50        | 21.72                 | 21.75                        | 21.76                         | 21.72                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 21.67                 | 21.69                        | 21.71                         | 21.76                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 22.19                 | 22.17                        | 22.21                         | 22.15                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 22.19                 | 22.21                        | 22.14                         | 22.18                  | 23                  | 1        |  |  |
| 20              | 16QAM      | 1       | 99        | 22.13                 | 22.12                        | 22.12                         | 22.14                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 21.62                 | 21.71                        | 21.62                         | 21.63                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 21.70                 | 21.68                        | 21.71                         | 21.69                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 21.63                 | 21.64                        | 21.68                         | 21.70                  | 23                  | 1        |  |  |
| 20              | 16QAM      | 100     | 0         | 21.63                 | 21.70                        | 21.66                         | 21.71                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 21.78                 | 21.73                        | 21.78                         | 21.73                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 21.75                 | 21.79                        | 21.78                         | 21.81                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 21.80                 | 21.72                        | 21.78                         | 21.73                  | 23                  | 1        |  |  |
| 20              | 64QAM      | 50      | 0         | 20.65                 | 20.66                        | 20.66                         | 20.66                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 20.67                 | 20.60                        | 20.61                         | 20.61                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 20.62                 | 20.62                        | 20.59                         | 20.62                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 20.65                 | 20.65                        | 20.67                         | 20.67                  | 22                  | 2        |  |  |
| 20              | 256QAM     | 1       | 0         | 18.72                 | 18.75                        | 18.75                         | 18.74                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 18.78                 | 18.80                        | 18.78                         | 18.79                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 18.74                 | 18.73                        | 18.77                         | 18.77                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 18.72                 | 18.65                        | 18.67                         | 18.70                  | 20                  | 4        |  |  |
| 20              | 256QAM     | 50      | 24        | 18.74                 | 18.65                        | 18.70                         | 18.65                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 18.72                 | 18.71                        | 18.66                         | 18.68                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 18.65                 | 18.69                        | 18.65                         | 18.69                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 22.87                 | 22.79                        | 22.83                         | 22.85                  | 24                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 22.90                 | 22.90                        | 22.95                         | 22.91                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 22.85                 | 22.92                        | 22.90                         | 22.90                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 21.83                 | 21.76                        | 21.79                         | 21.77                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 21.73                 | 21.69                        | 21.71                         | 21.71                  | 23                  | 1        |  |  |
| 15              | QPSK       | 36      | 39        | 21.75                 | 21.69                        | 21.75                         | 21.75                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 21.69                 | 21.67                        | 21.61                         | 21.67                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 22.12                 | 22.20                        | 22.12                         | 22.16                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 22.08                 | 22.09                        | 22.07                         | 22.10                  | 23                  | 1        |  |  |
| 15              | 16QAM      | 1       | 74        | 22.11                 | 22.05                        | 22.04                         | 22.10                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 21.61                 | 21.61                        | 21.57                         | 21.61                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 21.70                 | 21.65                        | 21.62                         | 21.66                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 75        | 21.65                 | 21.66                        | 21.63                         | 21.61                  | 23                  | 1        |  |  |
| 15              | 16QAM      | 75      | 0         | 21.62                 | 21.60                        | 21.62                         | 21.60                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 21.77                 | 21.73                        | 21.76                         | 21.73                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 21.74                 | 21.69                        | 21.77                         | 21.69                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 21.77                 | 21.71                        | 21.75                         | 21.69                  | 22                  | 2        |  |  |
| 15              | 64QAM      | 36      | 0         | 20.56                 | 20.64                        | 20.59                         | 20.59                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 20.53                 | 20.51                        | 20.55                         | 20.59                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 20.52                 | 20.55                        | 20.57                         | 20.57                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 20.60                 | 20.59                        | 20.62                         | 20.65                  | 20                  | 4        |  |  |
| 15              | 256QAM     | 1       | 0         | 18.65                 | 18.73                        | 18.72                         | 18.73                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 18.72                 | 18.71                        | 18.75                         | 18.69                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 18.75                 | 18.69                        | 18.67                         | 18.68                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 18.57                 | 18.58                        | 18.61                         | 18.66                  | 20                  | 4        |  |  |
| 15              | 256QAM     | 36      | 20        | 18.62                 | 18.62                        | 18.61                         | 18.68                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 18.57                 | 18.56                        | 18.58                         | 18.65                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 18.58                 | 18.62                        | 18.57                         | 18.60                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 22.84                 | 22.85                        | 22.84                         | 22.79                  | 24                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 22.95                 | 22.92                        | 22.93                         | 22.89                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 22.89                 | 22.92                        | 22.91                         | 22.89                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 21.78                 | 21.77                        | 21.78                         | 21.76                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 21.65                 | 21.72                        | 21.66                         | 21.73                  | 23                  | 1        |  |  |
| 10              | QPSK       | 25      | 25        | 21.73                 | 21.74                        | 21.71                         | 21.66                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 21.69                 | 21.61                        | 21.62                         | 21.68                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 22.19                 | 22.19                        | 22.20                         | 22.16                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 22.13                 | 22.06                        | 22.06                         | 22.04                  | 23                  | 1        |  |  |
| 10              | 16QAM      | 1       | 49        | 22.02                 | 22.07                        | 22.06                         | 22.03                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 21.60                 | 21.61                        | 21.56                         | 21.57                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 21.67                 | 21.70                        | 21.67                         | 21.65                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 21.62                 | 21.62                        | 21.65                         | 21.58                  | 23                  | 1        |  |  |
| 10              | 16QAM      | 50      | 0         | 21.60                 | 21.58                        | 21.62                         | 21.64                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 21.73                 | 21.76                        | 21.68                         | 21.75                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 21.74                 | 21.74                        | 21.76                         | 21.72                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 21.71                 | 21.77                        | 21.68                         | 21.70                  | 22                  | 2        |  |  |
| 10              | 64QAM      | 25      | 0         | 20.56                 | 20.65                        | 20.62                         | 20.56                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 20.55                 | 20.60                        | 20.54                         | 20.53                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 20.51                 | 20.58                        | 20.52                         | 20.51                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 20.60                 | 20.62                        | 20.57                         | 20.63                  | 20                  | 4        |  |  |
| 10              | 256QAM     | 1       | 0         | 18.69                 | 18.68                        | 18.69                         | 18.65                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 18.72                 | 18.70                        | 18.75                         | 18.70                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 18.75                 | 18.70                        | 18.68                         | 18.68                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 18.63                 | 18.60                        | 18.60                         | 18.64                  | 20                  | 4        |  |  |
| 10              | 256QAM     | 25      | 12        | 18.63                 | 18.64                        | 18.62                         | 18.65                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 18.63                 | 18.64                        | 18.58                         | 18.65                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 18.56                 | 18.64                        | 18.61                         | 18.59                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 22.81                 | 22.81                        | 22.85                         | 22.86                  | 24                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 22.94                 | 22.95                        | 22.94                         | 22.98                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 22.90                 | 22.87                        | 22.85                         | 22.83                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 21.80                 | 21.78                        | 21.77                         | 21.82                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 21.69                 | 21.71                        | 21.67                         | 21.72                  | 23                  | 1        |  |  |
| 5               | QPSK       | 12      | 13        | 21.72                 | 21.70                        | 21.72                         | 21.71                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 21.67                 | 21.68                        | 21.61                         | 21.64                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 22.11                 | 22.17                        | 22.20                         | 22.20                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 22.11                 | 22.04                        | 22.05                         | 22.11                  | 23                  | 1        |  |  |
| 5               | 16QAM      | 1       | 24        | 22.04                 | 22.10                        | 22.06                         | 22.03                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 21.56                 | 21.59                        | 21.60                         | 21.59                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 21.69                 | 21.68                        | 21.62                         | 21.63                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 21.67                 | 21.66                        | 21.60                         | 21.58                  | 23                  | 1        |  |  |
| 5               | 16QAM      | 25      | 0         | 21.60                 | 21.59                        | 21.65                         | 21.57                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 21.77                 | 21.71                        | 21.74                         | 21.73                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 21.75                 | 21.73                        | 21.71                         | 21.72                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 21.75                 | 21.76                        | 21.70                         | 21.68                  | 23                  | 1        |  |  |
| 5               | 64QAM      | 12      | 0         | 20.64                 | 20.64                        | 20.64                         | 20.60                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 20.57                 | 20.51                        | 20.51                         | 20.52                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 20.53                 | 20.55                        | 20.56                         | 20.50                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 20.58                 | 20.60                        | 20.65                         | 20.61                  | 22                  | 2        |  |  |
| 5               | 256QAM     | 1       | 0         | 18.67                 | 18.65                        | 18.66                         | 18.57                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 12        | 18.68                 | 18.70                        | 18.74                         | 18.68                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 18.68                 | 18.68                        | 18.71                         | 18.76                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 0         | 18.58                 | 18.60                        | 18.58                         | 18.63                  | 20                  | 4        |  |  |
| 5               | 256QAM     | 12      | 7         | 18.64                 | 18.64                        | 18.68                         | 18.62                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 13        | 18.64                 | 18.64                        | 18.57                         | 18.61                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 18.58                 | 18.57                        | 18.58                         | 18.56                  |                     |          |  |  |

| Band 48_Ant 8   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 22.46                 | 22.46                        | 22.48                         | 22.52                  | 24                  | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 22.60                 | 22.64                        | 22.61                         | 22.72                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 22.47                 | 22.53                        | 22.54                         | 22.57                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 20.54                 | 20.52                        | 20.54                         | 20.73                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 20.47                 | 20.46                        | 20.42                         | 20.64                  | 22                  | 2        |  |  |
| 20              | QPSK       | 50      | 50        | 20.53                 | 20.48                        | 20.53                         | 20.63                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 20.39                 | 20.44                        | 20.41                         | 20.51                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 20.88                 | 20.85                        | 20.84                         | 20.97                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 20.75                 | 20.77                        | 20.77                         | 20.88                  | 22                  | 2        |  |  |
| 20              | 16QAM      | 1       | 99        | 20.81                 | 20.85                        | 20.81                         | 20.86                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 20.30                 | 20.32                        | 20.34                         | 20.40                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 20.41                 | 20.38                        | 20.40                         | 20.49                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 20.41                 | 20.45                        | 20.44                         | 20.47                  | 22                  | 2        |  |  |
| 20              | 16QAM      | 100     | 0         | 20.39                 | 20.44                        | 20.43                         | 20.52                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 20.46                 | 20.42                        | 20.45                         | 20.53                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 20.28                 | 20.34                        | 20.33                         | 20.42                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 20.42                 | 20.42                        | 20.43                         | 20.48                  | 22                  | 2        |  |  |
| 20              | 64QAM      | 50      | 0         | 19.25                 | 19.32                        | 19.30                         | 19.40                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 19.46                 | 19.49                        | 19.41                         | 19.52                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 19.42                 | 19.35                        | 19.35                         | 19.45                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 19.39                 | 19.44                        | 19.45                         | 19.54                  | 21                  | 3        |  |  |
| 20              | 256QAM     | 1       | 0         | 17.55                 | 17.46                        | 17.47                         | 17.58                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 17.47                 | 17.46                        | 17.46                         | 17.61                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 17.58                 | 17.53                        | 17.50                         | 17.67                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 17.39                 | 17.37                        | 17.34                         | 17.48                  | 19                  | 5        |  |  |
| 20              | 256QAM     | 50      | 24        | 17.50                 | 17.50                        | 17.46                         | 17.59                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 17.38                 | 17.46                        | 17.39                         | 17.52                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 17.40                 | 17.37                        | 17.38                         | 17.50                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 22.39                 | 22.44                        | 22.39                         | 22.38                  | 24                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 22.54                 | 22.53                        | 22.52                         | 22.60                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 22.45                 | 22.53                        | 22.44                         | 22.48                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 20.37                 | 20.35                        | 20.33                         | 20.35                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 20.45                 | 20.50                        | 20.44                         | 20.51                  | 22                  | 2        |  |  |
| 15              | QPSK       | 36      | 39        | 20.50                 | 20.53                        | 20.50                         | 20.51                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 20.33                 | 20.31                        | 20.40                         | 20.36                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 20.77                 | 20.82                        | 20.76                         | 20.82                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 20.71                 | 20.70                        | 20.74                         | 20.72                  | 22                  | 2        |  |  |
| 15              | 16QAM      | 1       | 74        | 20.80                 | 20.79                        | 20.77                         | 20.80                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 20.26                 | 20.30                        | 20.25                         | 20.31                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 20.34                 | 20.33                        | 20.36                         | 20.34                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 20.35                 | 20.38                        | 20.36                         | 20.36                  | 22                  | 2        |  |  |
| 15              | 16QAM      | 75      | 0         | 20.39                 | 20.34                        | 20.41                         | 20.41                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 20.41                 | 20.42                        | 20.38                         | 20.40                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 20.29                 | 20.30                        | 20.23                         | 20.32                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 20.33                 | 20.33                        | 20.41                         | 20.41                  | 22                  | 2        |  |  |
| 15              | 64QAM      | 36      | 0         | 19.23                 | 19.21                        | 19.25                         | 19.20                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 19.39                 | 19.37                        | 19.37                         | 19.36                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 19.25                 | 19.26                        | 19.31                         | 19.30                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 19.40                 | 19.40                        | 19.36                         | 19.42                  | 21                  | 3        |  |  |
| 15              | 256QAM     | 1       | 0         | 17.42                 | 17.45                        | 17.39                         | 17.44                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 17.44                 | 17.40                        | 17.37                         | 17.45                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 17.42                 | 17.48                        | 17.40                         | 17.48                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 17.33                 | 17.30                        | 17.33                         | 17.27                  | 19                  | 5        |  |  |
| 15              | 256QAM     | 36      | 20        | 17.37                 | 17.42                        | 17.36                         | 17.38                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 17.34                 | 17.31                        | 17.32                         | 17.34                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 17.33                 | 17.36                        | 17.31                         | 17.29                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 22.38                 | 22.41                        | 22.44                         | 22.47                  | 24                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 22.55                 | 22.54                        | 22.56                         | 22.59                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 22.48                 | 22.50                        | 22.45                         | 22.48                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 20.36                 | 20.37                        | 20.41                         | 20.35                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 20.44                 | 20.53                        | 20.45                         | 20.44                  | 22                  | 2        |  |  |
| 10              | QPSK       | 25      | 25        | 20.53                 | 20.52                        | 20.46                         | 20.44                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 20.33                 | 20.39                        | 20.33                         | 20.39                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 20.62                 | 20.61                        | 20.74                         | 20.61                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 20.74                 | 20.76                        | 20.73                         | 20.70                  | 22                  | 2        |  |  |
| 10              | 16QAM      | 1       | 49        | 20.78                 | 20.73                        | 20.74                         | 20.75                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 20.27                 | 20.29                        | 20.29                         | 20.31                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 20.35                 | 20.33                        | 20.39                         | 20.38                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 20.34                 | 20.34                        | 20.39                         | 20.34                  | 22                  | 2        |  |  |
| 10              | 16QAM      | 50      | 0         | 20.39                 | 20.35                        | 20.39                         | 20.35                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 20.36                 | 20.39                        | 20.42                         | 20.35                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 20.30                 | 20.23                        | 20.28                         | 20.29                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 20.35                 | 20.38                        | 20.35                         | 20.33                  | 22                  | 2        |  |  |
| 10              | 64QAM      | 25      | 0         | 19.21                 | 19.23                        | 19.29                         | 19.25                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 19.39                 | 19.35                        | 19.37                         | 19.35                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 19.33                 | 19.26                        | 19.29                         | 19.30                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 19.44                 | 19.44                        | 19.41                         | 19.38                  | 21                  | 3        |  |  |
| 10              | 256QAM     | 1       | 0         | 17.43                 | 17.46                        | 17.40                         | 17.41                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 17.37                 | 17.41                        | 17.39                         | 17.37                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 17.41                 | 17.42                        | 17.44                         | 17.40                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 17.30                 | 17.33                        | 17.28                         | 17.24                  | 19                  | 5        |  |  |
| 10              | 256QAM     | 25      | 12        | 17.45                 | 17.42                        | 17.45                         | 17.45                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 17.31                 | 17.37                        | 17.37                         | 17.33                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 17.30                 | 17.32                        | 17.32                         | 17.36                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 22.43                 | 22.42                        | 22.47                         | 22.42                  | 24                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 22.53                 | 22.52                        | 22.52                         | 22.59                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 22.44                 | 22.44                        | 22.44                         | 22.51                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 20.34                 | 20.36                        | 20.33                         | 20.32                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 20.48                 | 20.46                        | 20.53                         | 20.45                  | 22                  | 2        |  |  |
| 5               | QPSK       | 12      | 13        | 20.47                 | 20.53                        | 20.50                         | 20.51                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 20.39                 | 20.33                        | 20.33                         | 20.35                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 20.76                 | 20.76                        | 20.83                         | 20.82                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 20.76                 | 20.72                        | 20.76                         | 20.69                  | 22                  | 2        |  |  |
| 5               | 16QAM      | 1       | 24        | 20.79                 | 20.77                        | 20.76                         | 20.76                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 20.26                 | 20.28                        | 20.31                         | 20.32                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 20.37                 | 20.38                        | 20.33                         | 20.33                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 20.38                 | 20.39                        | 20.40                         | 20.35                  | 22                  | 2        |  |  |
| 5               | 16QAM      | 25      | 0         | 20.34                 | 20.36                        | 20.41                         | 20.35                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 20.35                 | 20.37                        | 20.36                         | 20.41                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 20.23                 | 20.28                        | 20.24                         | 20.24                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 20.42                 | 20.34                        | 20.41                         | 20.36                  | 22                  | 2        |  |  |
| 5               | 64QAM      | 12      | 0         | 19.27                 | 19.29                        | 19.26                         | 19.29                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 19.40                 | 19.39                        | 19.39                         | 19.33                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 19.32                 | 19.32                        | 19.27                         | 19.29                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 19.44                 | 19.44                        | 19.41                         | 19.44                  | 21                  | 3        |  |  |
| 5               | 256QAM     | 1       | 0         | 17.41                 | 17.41                        | 17.38                         | 17.38                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 12        | 17.45                 | 17.47                        | 17.37                         | 17.37                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 17.42                 | 17.43                        | 17.45                         | 17.47                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 0         | 17.24                 | 17.27                        | 17.25                         | 17.27                  | 19                  | 5        |  |  |
| 5               | 256QAM     | 12      | 7         | 17.44                 | 17.44                        | 17.37                         | 17.37                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 13        | 17.29                 | 17.37                        | 17.37                         | 17.33                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 17.28                 | 17.36                        | 17.37                         | 17.35                  |                     |          |  |  |



| n2_Ant 0        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 375000                | 376000                   | 380000                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.91                 | 23.02                    | 22.89                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.89                 | 22.97                    | 22.92                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.97                 | 23.01                    | 22.96                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.80                 | 22.88                    | 22.77                  |                     | 23.5     |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.85                 | 22.95                    | 22.81                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.97                 | 22.99                    | 22.87                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.86                 | 22.93                    | 22.89                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.91                 | 23.05                    | 22.94                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 22.86                 | 23.01                    | 22.90                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 22.84                 | 22.98                    | 22.86                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.81                 | 22.96                    | 22.84                  |                     | 24.0     |  |
| 20              | QPSK       | 50      | 28        | 22.88                 | 23.03                    | 22.90                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.83                 | 22.94                    | 22.82                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 22.90                 | 23.01                    | 22.90                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.87                 | 22.94                    | 22.82                  | 24.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 22.84                 | 22.91                    | 22.78                  | 24.0                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 21.05                 | 21.13                    | 21.03                  | 22.0                | 2.0      |  |
| Channel         |            |         |           | 371500                | 376000                   | 380000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1882.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.81                 | 22.95                    | 22.90                  |                     |          |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.90                 | 22.91                    | 22.92                  |                     | 24.0     |  |
| Channel         |            |         |           | 375000                | 376000                   | 381500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.87                 | 22.82                    | 22.91                  |                     | 24.0     |  |

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 375000                | 376000                   | 380000                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.80                 | 22.82                    | 22.71                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.87                 | 22.92                    | 22.81                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.72                 | 22.81                    | 22.68                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.66                 | 22.81                    | 22.76                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.81                 | 22.83                    | 22.79                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.75                 | 22.81                    | 22.71                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.83                 | 22.84                    | 22.83                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.84                 | 22.95                    | 22.87                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 22.83                 | 22.85                    | 22.76                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 22.73                 | 22.84                    | 22.72                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.73                 | 22.87                    | 22.73                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 28        | 22.75                 | 22.91                    | 22.76                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.69                 | 22.83                    | 22.71                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 22.70                 | 22.81                    | 22.77                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.75                 | 22.86                    | 22.80                  | 24.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 21.40                 | 21.41                    | 21.38                  | 22.5                | 1.5      |  |
| 20              | 256QAM     | 1       | 1         | 19.97                 | 19.42                    | 19.27                  | 20.5                | 3.5      |  |
| Channel         |            |         |           | 371500                | 376000                   | 380000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1882.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.81                 | 22.93                    | 22.77                  |                     |          |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.70                 | 22.80                    | 22.81                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 375000                | 376000                   | 381500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.83                 | 22.91                    | 22.76                  | 24.0                | 0.0      |  |

| n25_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 375000                | 376000                   | 379000                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1885                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 23.18                 | 23.25                    | 23.14                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.16                 | 23.21                    | 23.08                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.07                 | 23.12                    | 23.05                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 23.13                 | 23.16                    | 23.07                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 23.13                 | 23.18                    | 23.07                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.99                 | 23.14                    | 23.07                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 23.10                 | 23.21                    | 23.19                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 23.25                 | 23.26                    | 23.24                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 23.17                 | 23.22                    | 23.09                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 23.02                 | 23.11                    | 22.98                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 23.17                 | 23.21                    | 23.12                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 23.20                 | 23.23                    | 23.17                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 23.01                 | 23.16                    | 23.10                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 23.14                 | 23.19                    | 23.11                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 23.12                 | 23.21                    | 23.06                  | 24.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 22.22                 | 22.28                    | 22.13                  | 23.0                | 1.0      |  |
| 40              | 256QAM     | 1       | 1         | 20.27                 | 20.38                    | 20.24                  | 21.0                | 3.0      |  |
| Channel         |            |         |           | 373500                | 376000                   | 379500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1881.5                | 1882.5                   | 1887.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 23.23                 | 23.19                    | 23.13                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 375000                | 376000                   | 380000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1900                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.18                 | 23.21                    | 23.22                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372500                | 376000                   | 380500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1902.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 23.11                 | 23.16                    | 23.10                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372000                | 376000                   | 381000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1880                  | 1882.5                   | 1905                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.16                 | 23.11                    | 23.09                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371500                | 376000                   | 381500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1881.5                | 1882.5                   | 1907.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.22                 | 23.11                    | 23.14                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1910                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.13                 | 23.14                    | 23.12                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 370500                | 376000                   | 382500                 | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1912.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.13                 | 23.16                    | 23.16                  | 24.0                | 0.0      |  |





| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 375000                | 376000                   | 376000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1885                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 23.18                 | 23.23                    | 23.10                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.09                 | 23.21                    | 23.13                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 22.99                 | 23.11                    | 23.09                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.76                 | 22.83                    | 22.73                  | 23.5                | 0.5      |  |
| 40              | PI2 BPSK   | 108     | 54        | 23.01                 | 23.15                    | 23.14                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.69                 | 22.76                    | 22.67                  | 23.5                | 0.5      |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.72                 | 22.83                    | 22.73                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 23.15                 | 23.28                    | 23.20                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 23.14                 | 23.26                    | 23.17                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 22.93                 | 23.08                    | 22.98                  | 23.0                | 1.0      |  |
| 40              | QPSK       | 108     | 0         | 22.24                 | 22.38                    | 22.31                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 23.05                 | 23.21                    | 23.07                  |                     |          |  |
| 40              | QPSK       | 108     | 108       | 22.20                 | 22.23                    | 22.20                  | 23.0                | 1.0      |  |
| 40              | 8QAM       | 1       | 1         | 22.14                 | 22.28                    | 22.25                  | 23.0                | 1.0      |  |
| 40              | 8QAM       | 1       | 1         | 22.25                 | 22.39                    | 22.30                  |                     |          |  |
| 40              | 8QAM       | 1       | 1         | 20.92                 | 20.94                    | 20.89                  | 21.5                | 2.5      |  |
| 40              | 25QAM      | 1       | 1         | 18.88                 | 18.93                    | 18.88                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 373500                | 376500                   | 376500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1882.5                   | 1887.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 23.06                 | 23.24                    | 23.10                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 375000                | 376500                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1900                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.00                 | 23.21                    | 23.17                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1902.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 23.06                 | 23.16                    | 23.13                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372600                | 376500                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1880                  | 1882.5                   | 1905                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.26                    | 23.14                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1882.5                   | 1907.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.07                 | 23.16                    | 23.17                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376900                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1910                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.00                 | 23.20                    | 23.16                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1912.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.10                 | 23.15                    | 23.09                  | 24.0                | 0.0      |  |

| n66_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 345000                | 349000                   | 350000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.83                 | 22.93                    | 22.78                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 22.91                 | 22.92                    | 22.86                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 22.90                 | 22.98                    | 22.95                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.76                 | 22.88                    | 22.79                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 22.73                 | 22.86                    | 22.83                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.86                 | 22.87                    | 22.80                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.84                 | 22.92                    | 22.82                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 23.00                 | 23.01                    | 22.88                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 22.88                 | 22.97                    | 22.82                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 22.84                 | 22.93                    | 22.78                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 22.74                 | 22.86                    | 22.82                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 22.83                 | 22.97                    | 22.83                  |                     |          |  |
| 40              | QPSK       | 108     | 108       | 22.81                 | 22.94                    | 22.81                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 22.93                 | 22.94                    | 22.89                  | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.75                 | 22.86                    | 22.84                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 22.79                 | 22.84                    | 22.74                  |                     |          |  |
| 40              | 25QAM      | 1       | 1         | 20.83                 | 20.87                    | 20.72                  | 22.0                | 2.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 350000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 22.88                 | 22.90                    | 22.83                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.88                 | 22.89                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 22.86                 | 22.91                    | 22.75                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.91                 | 22.95                    | 22.77                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.89                 | 22.97                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.92                 | 22.97                    | 22.88                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.95                 | 22.92                    | 22.81                  | 24.0                | 0.0      |  |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 345000                | 349000                   | 350000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.82                 | 22.85                    | 22.83                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 22.75                 | 22.77                    | 22.66                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 22.65                 | 22.75                    | 22.65                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.75                 | 22.76                    | 22.69                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 22.66                 | 22.74                    | 22.67                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.68                 | 22.79                    | 22.78                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.67                 | 22.77                    | 22.62                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.90                 | 22.93                    | 22.88                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 22.77                 | 22.88                    | 22.83                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 22.74                 | 22.87                    | 22.82                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 22.63                 | 22.78                    | 22.72                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 22.80                 | 22.87                    | 22.85                  |                     |          |  |
| 40              | QPSK       | 108     | 108       | 22.78                 | 22.85                    | 22.72                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 22.84                 | 22.88                    | 22.78                  | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.86                 | 22.89                    | 22.79                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 22.03                 | 22.09                    | 22.06                  | 23.0                | 1.0      |  |
| 40              | 25QAM      | 1       | 1         | 20.04                 | 20.11                    | 19.97                  | 21.0                | 3.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 352500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 22.89                 | 22.80                    | 22.77                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.75                 | 22.86                    | 22.74                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 22.88                 | 22.90                    | 22.87                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.80                 | 22.80                    | 22.74                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.88                 | 22.92                    | 22.83                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.83                 | 22.90                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.88                 | 22.91                    | 22.83                  | 24.0                | 0.0      |  |



Full&amp;Default Power Other PA Mode for Body

| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 22.83                 | 22.69                    | 22.52                  | 24.0                | 0.0      |  |
| 100             | PI2 BPSK   | 1       | 137       | 22.81                 | 22.76                    | 22.65                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 271       | 22.87                 | 22.77                    | 22.62                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 0         | 22.81                 | 22.75                    | 22.58                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 69        | 22.59                 | 22.82                    | 22.58                  | 24.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 138       | 22.58                 | 22.70                    | 22.64                  | 24.0                | 0.0      |  |
| 100             | PI2 BPSK   | 270     | 0         | 22.84                 | 22.80                    | 22.62                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 22.68                 | 22.83                    | 22.68                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 137       | 22.80                 | 22.72                    | 22.57                  |                     |          |  |
| 100             | QPSK       | 1       | 271       | 22.84                 | 22.75                    | 22.64                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.35                 | 22.76                    | 22.57                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 22.95                 | 22.78                    | 22.50                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 22.80                 | 22.77                    | 22.55                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 270     | 0         | 22.57                 | 22.75                    | 22.61                  |                     |          |  |
| 100             | 64QAM      | 1       | 1         | 22.80                 | 22.75                    | 22.56                  | 24.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 22.43                 | 22.51                    | 22.34                  | 23.5                | 0.5      |  |
| 100             | 256QAM     | 1       | 1         | 21.18                 | 21.28                    | 21.19                  | 22.5                | 1.5      |  |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.80                |                     |          |  |
| 90              | QPSK       | 1       | 1         | 22.57                 | 22.72                    | 22.58                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2648.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.00                 | 22.72                    | 22.68                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70              | QPSK       | 1       | 1         | 22.83                 | 22.78                    | 22.60                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536                  | 2592.99                  | 2658.88                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.55                 | 22.81                    | 22.62                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2527.02               | 2592.99                  | 2664.99                |                     |          |  |
| 50              | QPSK       | 1       | 1         | 22.59                 | 22.78                    | 22.52                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.58                 | 22.69                    | 22.62                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518598                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.65                 | 22.68                    | 22.56                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2504.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.81                 | 22.74                    | 22.65                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536498                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.85                 | 22.72                    | 22.60                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.88                 | 22.70                    | 22.53                  | 24.0                | 0.0      |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           | 508200                | 518598                   | 528996                 |                     |          |  |
| Frequency (MHz)     |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 1         | 24.57                 | 24.70                    | 24.44                  | 26.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 1       | 137       | 24.59                 | 24.58                    | 24.54                  |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 271       | 24.64                 | 24.67                    | 24.49                  |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 0         | 24.13                 | 24.25                    | 24.14                  |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 69        | 24.56                 | 24.66                    | 24.50                  | 26.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 135     | 138       | 24.11                 | 24.25                    | 24.06                  | 25.5                | 0.5      |  |
| 100                 | PI2 BPSK   | 270     | 0         | 24.24                 | 24.28                    | 24.08                  |                     |          |  |
| 100                 | QPSK       | 1       | 1         | 24.71                 | 24.78                    | 24.62                  | 26.0                | 0.0      |  |
| 100                 | QPSK       | 1       | 137       | 24.84                 | 24.71                    | 24.61                  |                     |          |  |
| 100                 | QPSK       | 1       | 271       | 24.88                 | 24.68                    | 24.58                  |                     |          |  |
| 100                 | QPSK       | 135     | 0         | 24.87                 | 24.58                    | 24.78                  |                     |          |  |
| 100                 | QPSK       | 135     | 69        | 23.55                 | 24.73                    | 24.55                  | 26.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 138       | 24.06                 | 24.15                    | 23.99                  | 25.0                | 1.0      |  |
| 100                 | QPSK       | 270     | 0         | 23.88                 | 23.83                    | 23.75                  |                     |          |  |
| 100                 | 64QAM      | 1       | 1         | 23.73                 | 23.93                    | 23.82                  | 25.0                | 1.0      |  |
| 100                 | 64QAM      | 1       | 1         | 22.43                 | 22.51                    | 22.34                  | 23.5                | 2.5      |  |
| 100                 | 256QAM     | 1       | 1         | 21.18                 | 21.28                    | 21.19                  | 22.5                | 3.5      |  |
| Channel             |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2541                  | 2592.99                  | 2644.80                |                     |          |  |
| 90                  | QPSK       | 1       | 1         | 24.59                 | 24.59                    | 24.40                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 507204                | 518598                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2536.02               | 2592.99                  | 2648.99                |                     |          |  |
| 80                  | QPSK       | 1       | 1         | 24.58                 | 24.70                    | 24.62                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |  |
| 70                  | QPSK       | 1       | 1         | 24.62                 | 24.58                    | 24.50                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2536                  | 2592.99                  | 2658.88                |                     |          |  |
| 60                  | QPSK       | 1       | 1         | 24.80                 | 24.62                    | 24.44                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2527.02               | 2592.99                  | 2664.99                |                     |          |  |
| 50                  | QPSK       | 1       | 1         | 24.55                 | 24.62                    | 24.44                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40                  | QPSK       | 1       | 1         | 24.57                 | 24.70                    | 24.50                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 502200                | 518598                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30                  | QPSK       | 1       | 1         | 24.54                 | 24.65                    | 24.44                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2504.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20                  | QPSK       | 1       | 1         | 24.51                 | 24.62                    | 24.42                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 500700                | 518598                   | 536498                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |  |
| 15                  | QPSK       | 1       | 1         | 24.60                 | 24.64                    | 24.54                  | 26.0                | 0.0      |  |
| Channel             |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10                  | QPSK       | 1       | 1         | 24.51                 | 24.58                    | 24.55                  | 26.0                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                      |                         |                       |                     |          |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332               | 3469.98                 |                       |                     |          |
| Frequency (MHz)   |            |         |           | 3469.98              | 3469.98                 | 3469.98               |                     |          |
| 100               | Pl2 BPSK   | 1       | 1         | 21.97                |                         |                       |                     |          |
| 100               | Pl2 BPSK   | 1       | 137       | 22.05                |                         |                       | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 1       | 271       | 21.97                |                         |                       |                     |          |
| 100               | Pl2 BPSK   | 135     | 0         | 22.02                |                         |                       | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 135     | 69        | 22.02                |                         |                       | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 135     | 138       | 22.02                |                         |                       | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 270     | 0         | 22.05                |                         |                       |                     |          |
| 100               | QPSK       | 1       | 1         | 22.10                |                         |                       |                     |          |
| 100               | QPSK       | 1       | 137       | 21.98                |                         |                       | 23.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 22.08                |                         |                       |                     |          |
| 100               | QPSK       | 135     | 0         | 21.97                |                         |                       |                     |          |
| 100               | QPSK       | 135     | 69        | 22.06                |                         |                       | 23.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 22.01                |                         |                       |                     |          |
| 100               | QPSK       | 270     | 0         | 22.07                |                         |                       | 23.5                | 0.0      |
| 100               | NCAM       | 1       | 1         | 21.96                |                         |                       | 23.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 21.53                |                         |                       | 23.0                | 0.5      |
| 100               | 256QAM     | 1       | 1         | 18.53                |                         |                       | 21.0                | 2.5      |
| Channel           |            |         |           | 633000               | 633332                  | 633668                |                     |          |
| Frequency (MHz)   |            |         |           | 3465                 | 3469.98                 | 3474.98               | Tune-up limit (dBm) | MPR (dB) |
| 90                | QPSK       | 1       | 1         | 21.98                | 21.96                   | 22.04                 | 23.5                | 0.0      |
| Channel           |            |         |           | 632668               | 633332                  | 634000                |                     |          |
| Frequency (MHz)   |            |         |           | 3450.02              | 3469.98                 | 3480                  | Tune-up limit (dBm) | MPR (dB) |
| 80                | QPSK       | 1       | 1         | 21.08                | 21.98                   | 22.02                 | 23.5                | 0.0      |
| Channel           |            |         |           | 632334               | 633332                  | 634332                |                     |          |
| Frequency (MHz)   |            |         |           | 3468.01              | 3469.98                 | 3514.98               | Tune-up limit (dBm) | MPR (dB) |
| 70                | QPSK       | 1       | 1         | 21.99                | 22.01                   | 22.00                 | 23.5                | 0.0      |
| Channel           |            |         |           | 632000               | 633332                  | 634668                |                     |          |
| Frequency (MHz)   |            |         |           | 3460                 | 3469.98                 | 3519.98               | Tune-up limit (dBm) | MPR (dB) |
| 60                | QPSK       | 1       | 1         | 22.04                | 21.97                   | 22.02                 | 23.5                | 0.0      |
| Channel           |            |         |           | 631668               | 633332                  | 635000                |                     |          |
| Frequency (MHz)   |            |         |           | 3470.02              | 3469.98                 | 3520                  | Tune-up limit (dBm) | MPR (dB) |
| 50                | QPSK       | 1       | 1         | 21.59                | 22.01                   | 22.07                 | 23.5                | 0.0      |
| Channel           |            |         |           | 631334               | 633332                  | 635332                |                     |          |
| Frequency (MHz)   |            |         |           | 3470.01              | 3469.98                 | 3528.98               | Tune-up limit (dBm) | MPR (dB) |
| 40                | QPSK       | 1       | 1         | 22.03                | 22.01                   | 21.98                 | 23.5                | 0.0      |
| Channel           |            |         |           | 631000               | 633332                  | 635668                |                     |          |
| Frequency (MHz)   |            |         |           | 3465                 | 3469.98                 | 3534.98               | Tune-up limit (dBm) | MPR (dB) |
| 30                | QPSK       | 1       | 1         | 22.01                | 22.07                   | 22.04                 | 23.5                | 0.0      |
| Channel           |            |         |           | 630668               | 633332                  | 636000                |                     |          |
| Frequency (MHz)   |            |         |           | 3460.02              | 3469.98                 | 3540                  | Tune-up limit (dBm) | MPR (dB) |
| 20                | QPSK       | 1       | 1         | 21.96                | 21.98                   | 22.01                 | 23.5                | 0.0      |
| Channel           |            |         |           | 630334               | 633332                  | 636332                |                     |          |
| Frequency (MHz)   |            |         |           | 3457.5               | 3469.98                 | 3542.49               | Tune-up limit (dBm) | MPR (dB) |
| 15                | QPSK       | 1       | 1         | 21.05                | 21.09                   | 22.04                 | 23.5                | 0.0      |
| Channel           |            |         |           | 630000               | 633332                  | 636668                |                     |          |
| Frequency (MHz)   |            |         |           | 3455.01              | 3469.98                 | 3544.98               | Tune-up limit (dBm) | MPR (dB) |
| 10                | QPSK       | 1       | 1         | 22.06                | 22.07                   | 22.02                 | 23.5                | 0.0      |

| Part27Q_n77_Ant 4 |            |         |           |                      |                         |                       |                     |          |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 640000               | 640000                  | 640000                |                     |          |
| Frequency (MHz)   |            |         |           | 3760                 | 3840                    | 3900                  |                     |          |
| 100               | Pl2 BPSK   | 1       | 1         | 22.47                | 22.57                   | 22.33                 |                     |          |
| 100               | Pl2 BPSK   | 1       | 137       | 22.44                | 22.56                   | 22.30                 | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 1       | 271       | 22.45                | 22.54                   | 22.27                 |                     |          |
| 100               | Pl2 BPSK   | 135     | 0         | 22.48                | 22.62                   | 22.31                 | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 135     | 69        | 22.41                | 22.52                   | 22.31                 | 23.5                | 0.0      |
| 100               | Pl2 BPSK   | 135     | 138       | 22.40                | 22.61                   | 22.33                 |                     |          |
| 100               | Pl2 BPSK   | 270     | 0         | 22.47                | 22.55                   | 22.29                 | 23.5                | 0.0      |
| 100               | QPSK       | 1       | 1         | 22.53                | 22.67                   | 22.42                 |                     |          |
| 100               | QPSK       | 1       | 137       | 22.46                | 22.60                   | 22.32                 | 23.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 22.42                | 22.62                   | 22.28                 |                     |          |
| 100               | QPSK       | 135     | 0         | 22.48                | 22.53                   | 22.31                 |                     |          |
| 100               | QPSK       | 135     | 69        | 22.45                | 22.62                   | 22.31                 | 23.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 22.45                | 22.60                   | 22.32                 |                     |          |
| 100               | QPSK       | 270     | 0         | 22.44                | 22.55                   | 22.36                 | 23.5                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 22.50                | 22.54                   | 22.35                 | 23.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 22.20                | 22.23                   | 22.10                 | 23.0                | 0.5      |
| 100               | 256QAM     | 1       | 1         | 19.96                | 20.05                   | 20.00                 | 21.0                | 2.5      |
| Channel           |            |         |           | 649668               | 650000                  | 652332                |                     |          |
| Frequency (MHz)   |            |         |           | 3765.02              | 3840                    | 3914.98               | Tune-up limit (dBm) | MPR (dB) |
| 90                | QPSK       | 1       | 1         | 22.43                | 22.54                   | 22.31                 | 23.5                | 0.0      |
| Channel           |            |         |           | 649334               | 650000                  | 652668                |                     |          |
| Frequency (MHz)   |            |         |           | 3745.01              | 3840                    | 3938.98               | Tune-up limit (dBm) | MPR (dB) |
| 80                | QPSK       | 1       | 1         | 22.41                | 22.53                   | 22.33                 | 23.5                | 0.0      |
| Channel           |            |         |           | 649000               | 650000                  | 653000                |                     |          |
| Frequency (MHz)   |            |         |           | 3735                 | 3840                    | 3945                  | Tune-up limit (dBm) | MPR (dB) |
| 70                | QPSK       | 1       | 1         | 22.45                | 22.55                   | 22.29                 | 23.5                | 0.0      |
| Channel           |            |         |           | 648668               | 650000                  | 653332                |                     |          |
| Frequency (MHz)   |            |         |           | 3730.02              | 3840                    | 3945.98               | Tune-up limit (dBm) | MPR (dB) |
| 60                | QPSK       | 1       | 1         | 22.42                | 22.53                   | 22.30                 | 23.5                | 0.0      |
| Channel           |            |         |           | 648334               | 650000                  | 653668                |                     |          |
| Frequency (MHz)   |            |         |           | 3725.01              | 3840                    | 3945.98               | Tune-up limit (dBm) | MPR (dB) |
| 50                | QPSK       | 1       | 1         | 22.50                | 22.56                   | 22.33                 | 23.5                | 0.0      |
| Channel           |            |         |           | 648000               | 650000                  | 654000                |                     |          |
| Frequency (MHz)   |            |         |           | 3720                 | 3840                    | 3960                  | Tune-up limit (dBm) | MPR (dB) |
| 40                | QPSK       | 1       | 1         | 22.47                | 22.57                   | 22.38                 | 23.5                | 0.0      |
| Channel           |            |         |           | 647668               | 650000                  | 654332                |                     |          |
| Frequency (MHz)   |            |         |           | 3715.02              | 3840                    | 3964.98               | Tune-up limit (dBm) | MPR (dB) |
| 30                | QPSK       | 1       | 1         | 22.41                | 22.63                   | 22.34                 | 23.5                | 0.0      |
| Channel           |            |         |           | 647334               | 650000                  | 654668                |                     |          |
| Frequency (MHz)   |            |         |           | 3710.01              | 3840                    | 3969.98               | Tune-up limit (dBm) | MPR (dB) |
| 20                | QPSK       | 1       | 1         | 22.41                | 22.56                   | 22.41                 | 23.5                | 0.0      |
| Channel           |            |         |           | 647000               | 650000                  | 654832                |                     |          |
| Frequency (MHz)   |            |         |           | 3707.52              | 3840                    | 3972.48               | Tune-up limit (dBm) | MPR (dB) |
| 15                | QPSK       | 1       | 1         | 22.39                | 22.53                   | 22.41                 | 23.5                | 0.0      |
| Channel           |            |         |           | 647000               | 650000                  | 655000                |                     |          |
| Frequency (MHz)   |            |         |           | 3705                 | 3840                    | 3975                  | Tune-up limit (dBm) | MPR (dB) |
| 10                | QPSK       | 1       | 1         | 22.52                | 22.62                   | 22.30                 | 23.5                | 0.0      |



| Part27Q_n77 HPUE_Ant 4                                                                              |            |         |           |                       |                          |                        |                     |          |     |
|-----------------------------------------------------------------------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                                                                                            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel <td colspan="3">3499.98</td> <td rowspan="2">25.5</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3499.98               |                          |                        | 25.5                | 0.0      |     |
| Frequency (MHz)                                                                                     |            |         |           | 24.04                 |                          |                        |                     |          |     |
| 100                                                                                                 | P12 BPSK   | 1       | 1         |                       | 24.11                    |                        |                     |          |     |
| 100                                                                                                 | P12 BPSK   | 1       | 137       |                       | 24.14                    |                        |                     |          |     |
| 100                                                                                                 | P12 BPSK   | 1       | 271       |                       | 24.11                    |                        |                     |          |     |
| 100                                                                                                 | P12 BPSK   | 135     | 0         |                       | 23.98                    |                        | 25.0                | 0.5      | 0.0 |
| 100                                                                                                 | P12 BPSK   | 135     | 69        |                       | 24.03                    |                        | 25.0                | 0.0      |     |
| 100                                                                                                 | P12 BPSK   | 135     | 138       |                       | 23.97                    |                        | 25.0                | 0.5      |     |
| 100                                                                                                 | P12 BPSK   | 270     | 0         |                       | 23.92                    |                        |                     |          |     |
| 100                                                                                                 | QPSK       | 1       | 1         |                       | 24.18                    |                        |                     |          |     |
| 100                                                                                                 | QPSK       | 1       | 137       |                       | 24.07                    |                        | 25.5                | 0.0      |     |
| 100                                                                                                 | QPSK       | 1       | 271       |                       | 24.09                    |                        |                     |          |     |
| 100                                                                                                 | QPSK       | 135     | 0         |                       | 23.07                    |                        |                     |          |     |
| 100                                                                                                 | QPSK       | 135     | 69        |                       | 24.13                    |                        | 25.5                | 0.0      |     |
| 100                                                                                                 | QPSK       | 135     | 138       |                       | 23.06                    |                        |                     |          |     |
| 100                                                                                                 | QPSK       | 270     | 0         |                       | 23.29                    |                        | 24.5                | 1.0      |     |
| 100                                                                                                 | 16QAM      | 1       | 1         |                       | 23.11                    |                        | 24.5                | 1.0      |     |
| 100                                                                                                 | 64QAM      | 1       | 1         |                       | 21.53                    |                        | 23.0                | 2.5      |     |
| 100                                                                                                 | 256QAM     | 1       | 1         |                       | 19.53                    |                        | 21.0                | 4.5      |     |
| Channel                                                                                             |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |     |
| 90                                                                                                  | QPSK       | 1       | 1         |                       | 23.97                    | 24.00                  | 23.98               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 630668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |     |
| 80                                                                                                  | QPSK       | 1       | 1         |                       | 24.06                    | 24.00                  | 23.96               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 635234                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |
| 70                                                                                                  | QPSK       | 1       | 1         |                       | 23.95                    | 24.01                  | 23.96               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 630000                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |     |
| 60                                                                                                  | QPSK       | 1       | 1         |                       | 23.95                    | 24.01                  | 24.08               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3470.02               | 3499.98                  | 3520                   |                     |          |     |
| 50                                                                                                  | QPSK       | 1       | 1         |                       | 23.99                    | 24.06                  | 23.98               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                                                                                                  | QPSK       | 1       | 1         |                       | 23.96                    | 23.99                  | 24.07               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 637000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |     |
| 30                                                                                                  | QPSK       | 1       | 1         |                       | 23.97                    | 23.99                  | 23.98               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                                                                                                  | QPSK       | 1       | 1         |                       | 24.07                    | 23.97                  | 24.03               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 636000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |     |
| 15                                                                                                  | QPSK       | 1       | 1         |                       | 24.05                    | 24.03                  | 23.99               | 25.5     | 0.0 |
| Channel                                                                                             |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                     |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10                                                                                                  | QPSK       | 1       | 1         |                       | 24.03                    | 24.06                  | 23.99               | 25.5     | 0.0 |

| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 3790                  | 3840                     | 3900                   | 25.5                | 0.0      |     |
| Frequency (MHz)        |            |         |           | 24.38                 | 24.48                    | 24.46                  |                     |          |     |
| 100                    | P12 BPSK   | 1       | 1         |                       | 24.38                    | 24.48                  | 24.46               |          |     |
| 100                    | P12 BPSK   | 1       | 137       |                       | 24.40                    | 24.46                  | 24.39               |          |     |
| 100                    | P12 BPSK   | 1       | 271       |                       | 24.35                    | 24.36                  | 24.22               |          |     |
| 100                    | P12 BPSK   | 135     | 0         |                       | 23.81                    | 23.92                  | 23.88               | 25.0     | 0.5 |
| 100                    | P12 BPSK   | 135     | 69        |                       | 24.19                    | 24.34                  | 24.21               | 25.5     | 0.0 |
| 100                    | P12 BPSK   | 135     | 138       |                       | 23.80                    | 23.85                  | 23.75               | 25.0     | 0.5 |
| 100                    | P12 BPSK   | 270     | 0         |                       | 23.85                    | 23.86                  | 23.81               |          |     |
| 100                    | QPSK       | 1       | 1         |                       | 24.58                    | 24.63                  | 24.47               |          |     |
| 100                    | QPSK       | 1       | 137       |                       | 24.48                    | 24.58                  | 24.46               | 25.5     | 0.0 |
| 100                    | QPSK       | 1       | 271       |                       | 24.29                    | 24.35                  | 24.31               |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 23.38                    | 23.46                  | 23.31               |          |     |
| 100                    | QPSK       | 135     | 69        |                       | 25.34                    | 24.43                  | 25.21               | 25.5     | 0.0 |
| 100                    | QPSK       | 135     | 138       |                       | 23.31                    | 23.37                  | 23.36               |          |     |
| 100                    | QPSK       | 270     | 0         |                       | 23.38                    | 23.46                  | 23.43               | 24.5     | 1.0 |
| 100                    | 64QAM      | 1       | 1         |                       | 23.56                    | 23.69                  | 23.58               | 24.5     | 1.0 |
| 100                    | 64QAM      | 1       | 1         |                       | 22.20                    | 22.23                  | 22.10               | 23.0     | 2.5 |
| 100                    | 256QAM     | 1       | 1         |                       | 19.86                    | 20.05                  | 20.00               | 21.0     | 4.5 |
| Channel                |            |         |           | 648668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3743.02               | 3840                     | 3943.98                |                     |          |     |
| 90                     | QPSK       | 1       | 1         |                       | 24.54                    | 24.58                  | 24.36               | 25.5     | 0.0 |
| Channel                |            |         |           | 648334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3740.01               | 3840                     | 3939.98                |                     |          |     |
| 80                     | QPSK       | 1       | 1         |                       | 24.45                    | 24.54                  | 24.38               | 25.5     | 0.0 |
| Channel                |            |         |           | 648000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |     |
| 70                     | QPSK       | 1       | 1         |                       | 24.49                    | 24.54                  | 24.33               | 25.5     | 0.0 |
| Channel                |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3730.02               | 3840                     | 3948.98                |                     |          |     |
| 60                     | QPSK       | 1       | 1         |                       | 24.55                    | 24.62                  | 24.43               | 25.5     | 0.0 |
| Channel                |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3725.01               | 3840                     | 3941.98                |                     |          |     |
| 50                     | QPSK       | 1       | 1         |                       | 24.49                    | 24.55                  | 24.35               | 25.5     | 0.0 |
| Channel                |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |     |
| 40                     | QPSK       | 1       | 1         |                       | 24.48                    | 24.50                  | 24.39               | 25.5     | 0.0 |
| Channel                |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |     |
| 30                     | QPSK       | 1       | 1         |                       | 24.44                    | 24.59                  | 24.34               | 25.5     | 0.0 |
| Channel                |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3969.98                |                     |          |     |
| 20                     | QPSK       | 1       | 1         |                       | 24.44                    | 24.55                  | 24.33               | 25.5     | 0.0 |
| Channel                |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |     |
| 15                     | QPSK       | 1       | 1         |                       | 24.53                    | 24.50                  | 24.33               | 25.5     | 0.0 |
| Channel                |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |     |
| 10                     | QPSK       | 1       | 1         |                       | 24.57                    | 24.48                  | 24.44               | 25.5     | 0.0 |

| Part27Q_n77_Ant 7                                                                                  |            |         |           |                       |                          |                        |                     |          |     |
|----------------------------------------------------------------------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                                                                                           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel <td colspan="3">633332</td> <td rowspan="2">24.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 633332                |                          |                        | 24.0                | 0.0      |     |
| Frequency (MHz)                                                                                    |            |         |           | 3499.98               |                          |                        |                     |          |     |
| 100                                                                                                | P12 BPSK   | 1       | 1         |                       | 22.95                    |                        |                     |          |     |
| 100                                                                                                | P12 BPSK   | 1       | 137       |                       | 23.13                    |                        |                     |          |     |
| 100                                                                                                | P12 BPSK   | 1       | 271       |                       | 23.18                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | P12 BPSK   | 135     | 0         |                       | 22.89                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | P12 BPSK   | 135     | 69        |                       | 23.10                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | P12 BPSK   | 135     | 138       |                       | 23.14                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | P12 BPSK   | 270     | 0         |                       | 23.03                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | QPSK       | 1       | 1         |                       | 23.20                    |                        |                     |          |     |
| 100                                                                                                | QPSK       | 1       | 137       |                       | 23.17                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | QPSK       | 1       | 271       |                       | 23.12                    |                        |                     |          |     |
| 100                                                                                                | QPSK       | 135     | 0         |                       | 22.96                    |                        |                     |          |     |
| 100                                                                                                | QPSK       | 135     | 69        |                       | 23.09                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | QPSK       | 135     | 138       |                       | 23.02                    |                        |                     |          |     |
| 100                                                                                                | QPSK       | 270     | 0         |                       | 22.81                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | 64QAM      | 1       | 1         |                       | 23.03                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | 64QAM      | 1       | 1         |                       | 23.11                    |                        |                     | 24.0     | 0.0 |
| 100                                                                                                | 256QAM     | 1       | 1         |                       | 22.02                    |                        |                     | 22.5     | 1.5 |
| Channel                                                                                            |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |     |
| 90                                                                                                 | QPSK       | 1       | 1         |                       | 23.02                    | 23.08                  | 23.16               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |     |
| 80                                                                                                 | QPSK       | 1       | 1         |                       | 22.88                    | 23.07                  | 23.12               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |
| 70                                                                                                 | QPSK       | 1       | 1         |                       | 22.87                    | 23.04                  | 23.15               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 632000                | 633332                   | 634998                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |     |
| 60                                                                                                 | QPSK       | 1       | 1         |                       | 22.84                    | 23.04                  | 23.28               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |     |
| 50                                                                                                 | QPSK       | 1       | 1         |                       | 23.00                    | 23.01                  | 23.13               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 631332                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                                                                                                 | QPSK       | 1       | 1         |                       | 22.92                    | 23.03                  | 23.13               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 631000                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |     |
| 30                                                                                                 | QPSK       | 1       | 1         |                       | 22.97                    | 23.07                  | 23.01               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                                                                                                 | QPSK       | 1       | 1         |                       | 22.80                    | 23.09                  | 23.59               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 630332                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3457.5                | 3499.98                  | 3552.49                |                     |          |     |
| 15                                                                                                 | QPSK       | 1       | 1         |                       | 22.85                    | 23.07                  | 23.00               | 24.0     | 0.0 |
| Channel                                                                                            |            |         |           | 6300.01               | 633332                   | 637332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                                                                                    |            |         |           | 3455.01               | 3499.98                  | 3554.98                |                     |          |     |
| 10                                                                                                 | QPSK       | 1       | 1         |                       | 22.81                    | 22.94                  | 23.10               | 24.0     | 0.0 |



| Part270Q_n77_Ant 7 |            |         |           |                          |                             |                           |                        |             |  |
|--------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel            |            |         |           | 650000                   | 656000                      | 662000                    |                        |             |  |
| Frequency (MHz)    |            |         |           | 3750                     | 3840                        | 3930                      |                        |             |  |
| 100                | Pi2 BPSK   | 1       | 1         | 23.27                    | 23.03                       | 23.10                     | 24.0                   | 0.0         |  |
| 100                | Pi2 BPSK   | 1       | 137       | 23.21                    | 23.00                       | 23.10                     |                        |             |  |
| 100                | Pi2 BPSK   | 1       | 271       | 23.21                    | 23.02                       | 23.05                     |                        |             |  |
| 100                | Pi2 BPSK   | 135     | 0         | 23.17                    | 23.06                       | 23.06                     |                        |             |  |
| 100                | Pi2 BPSK   | 135     | 69        | 23.22                    | 22.98                       | 23.07                     | 24.0                   | 0.0         |  |
| 100                | Pi2 BPSK   | 135     | 138       | 23.20                    | 22.99                       | 23.07                     | 24.0                   | 0.0         |  |
| 100                | Pi2 BPSK   | 270     | 0         | 23.23                    | 23.03                       | 23.06                     |                        |             |  |
| 100                | QPSK       | 1       | 1         | 23.28                    | 23.09                       | 23.16                     | 24.0                   | 0.0         |  |
| 100                | QPSK       | 1       | 137       | 23.20                    | 22.98                       | 23.12                     |                        |             |  |
| 100                | QPSK       | 1       | 271       | 23.16                    | 23.00                       | 23.05                     |                        |             |  |
| 100                | QPSK       | 135     | 0         | 23.20                    | 23.00                       | 23.04                     |                        |             |  |
| 100                | QPSK       | 135     | 69        | 23.22                    | 23.04                       | 23.05                     | 24.0                   | 0.0         |  |
| 100                | QPSK       | 135     | 138       | 23.21                    | 23.03                       | 23.02                     | 24.0                   | 0.0         |  |
| 100                | QPSK       | 270     | 0         | 23.22                    | 22.98                       | 23.13                     |                        |             |  |
| 100                | 64QAM      | 1       | 1         | 23.20                    | 23.00                       | 23.10                     | 24.0                   | 0.0         |  |
| 100                | 64QAM      | 1       | 1         | 23.00                    | 23.00                       | 23.10                     | 24.0                   | 0.0         |  |
| 100                | 256QAM     | 1       | 1         | 22.38                    | 22.24                       | 22.02                     | 22.5                   | 1.5         |  |
| Channel            |            |         |           | 649968                   | 650000                      | 662332                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3743.02                  | 3840                        | 3934.98                   |                        |             |  |
| 90                 | QPSK       | 1       | 1         | 23.19                    | 23.04                       | 23.04                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 648334                   | 656000                      | 662666                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3740.01                  | 3840                        | 3939.99                   |                        |             |  |
| 80                 | QPSK       | 1       | 1         | 23.19                    | 22.08                       | 23.10                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 646500                   | 656000                      | 663332                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3735                     | 3840                        | 3945                      |                        |             |  |
| 70                 | QPSK       | 1       | 1         | 23.15                    | 23.07                       | 23.01                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 647202                   | 656000                      | 663332                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3730.02                  | 3840                        | 3940.98                   |                        |             |  |
| 60                 | QPSK       | 1       | 1         | 23.17                    | 23.05                       | 23.04                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 648334                   | 656000                      | 663666                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3723.01                  | 3840                        | 3954.99                   |                        |             |  |
| 50                 | QPSK       | 1       | 1         | 23.20                    | 23.00                       | 23.14                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 648000                   | 656000                      | 664000                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3720                     | 3840                        | 3960                      |                        |             |  |
| 40                 | QPSK       | 1       | 1         | 23.22                    | 23.01                       | 23.05                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 647100                   | 656000                      | 664332                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3715.02                  | 3840                        | 3964.98                   |                        |             |  |
| 30                 | QPSK       | 1       | 1         | 23.13                    | 22.99                       | 23.08                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 647334                   | 656000                      | 664666                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |             |  |
| 20                 | QPSK       | 1       | 1         | 23.23                    | 23.02                       | 23.01                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 647166                   | 656000                      | 664832                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |             |  |
| 15                 | QPSK       | 1       | 1         | 23.22                    | 23.02                       | 23.14                     | 24.0                   | 0.0         |  |
| Channel            |            |         |           | 647000                   | 656000                      | 665000                    | Tune-up limit (dBm)    |             |  |
| Frequency (MHz)    |            |         |           | 3705                     | 3840                        | 3975                      |                        |             |  |
| 10                 | QPSK       | 1       | 1         | 23.14                    | 23.03                       | 23.02                     | 24.0                   | 0.0         |  |

| Part270Q_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633000                | 633332                   | 639666                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 1         | 25.97                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 1       | 137       | 25.96                 |                          |                        |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 271       | 25.90                 |                          |                        |                     |          |  |
| 100                     | Pi2 BPSK   | 135     | 0         | 25.72                 |                          |                        |                     |          |  |
| 100                     | Pi2 BPSK   | 135     | 69        | 25.82                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 135     | 138       | 25.77                 |                          |                        | 26.5                | 0.5      |  |
| 100                     | Pi2 BPSK   | 270     | 0         | 25.81                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 26.01                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 137       | 25.88                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 25.94                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 26.32                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 25.94                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 25.18                 |                          |                        | 26.0                | 1.0      |  |
| 100                     | QPSK       | 270     | 0         | 25.15                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 24.76                 |                          |                        | 26.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 23.58                 |                          |                        | 24.5                | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         | 22.00                 |                          |                        | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 639666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 25.93                 | 25.92                    | 25.88                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3503                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 26.90                 | 26.08                    | 26.81                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 25.92                 | 25.62                    | 25.68                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 25.83                 | 25.73                    | 25.69                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 25.84                 | 25.79                    | 25.81                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 25.92                 | 25.72                    | 25.79                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 25.89                 | 25.80                    | 25.85                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 25.89                 | 25.77                    | 25.85                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630600                | 633332                   | 636166                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 25.75                 | 25.73                    | 25.71                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 25.78                 | 25.65                    | 25.68                  | 27.0                | 0.0      |  |

| Part270_n77 HPUE_Ant 7 |            |         |           |                             |                                |                              |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. [dBm] | Power Middle Ch. / Freq. [dBm] | Power High Ch. / Freq. [dBm] | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                      | 650000                         | 650000                       |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                        | 3840                           | 3930                         |                     |          |  |
| 100                    | Pi2 BPSK   | 1       | 1         | 26.31                       | 26.14                          | 26.02                        | 27.0                | 0.0      |  |
| 100                    | Pi2 BPSK   | 1       | 137       | 26.35                       | 26.16                          | 26.01                        |                     |          |  |
| 100                    | Pi2 BPSK   | 1       | 271       | 26.31                       | 26.11                          | 25.90                        |                     |          |  |
| 100                    | Pi2 BPSK   | 135     | 0         | 26.29                       | 26.08                          | 25.81                        |                     |          |  |
| 100                    | Pi2 BPSK   | 135     | 69        | 26.25                       | 26.12                          | 25.97                        | 27.0                | 0.0      |  |
| 100                    | Pi2 BPSK   | 135     | 138       | 26.14                       | 26.06                          | 25.77                        | 27.0                | 0.0      |  |
| 100                    | Pi2 BPSK   | 270     | 0         | 26.22                       | 26.10                          | 25.83                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 26.36                       | 26.01                          | 25.91                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       | 26.32                       | 25.97                          | 25.75                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 25.79                       | 25.88                          | 25.76                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 25.73                       | 25.45                          | 25.51                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 25.17                       | 25.97                          | 25.73                        | 27.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 25.11                       | 25.21                          | 25.17                        | 26.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         | 25.26                       | 24.96                          | 24.84                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 25.60                       | 23.46                          | 23.32                        | 26.0                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 24.49                       | 24.27                          | 24.01                        | 24.5                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 22.38                       | 22.24                          | 22.02                        | 22.5                | 4.5      |  |
| Channel                |            |         |           | 649668                      | 650000                         | 662332                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3743.02                     | 3840                           | 3934.98                      |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 26.22                       | 25.81                          | 25.86                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649004                      | 650000                         | 660666                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3740.01                     | 3840                           | 3930.99                      |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 26.24                       | 25.84                          | 25.89                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649000                      | 650000                         | 663000                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3735                        | 3840                           | 3945                         |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 26.18                       | 25.01                          | 25.71                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649008                      | 650000                         | 663332                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3730.02                     | 3840                           | 3940.00                      |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 26.25                       | 26.00                          | 25.90                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649004                      | 650000                         | 665966                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3725.01                     | 3840                           | 3954.99                      |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 26.21                       | 25.98                          | 25.74                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 649000                      | 650000                         | 665400                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3720                        | 3840                           | 3960                         |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 26.16                       | 25.99                          | 25.75                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647668                      | 650000                         | 664532                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3713.02                     | 3840                           | 3964.98                      |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 26.12                       | 25.88                          | 25.68                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647424                      | 650000                         | 664966                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3710.01                     | 3840                           | 3969.99                      |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 26.26                       | 25.95                          | 25.76                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647200                      | 650000                         | 665332                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3707.52                     | 3840                           | 3972.48                      |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 26.18                       | 25.92                          | 25.84                        | 27.0                | 0.0      |  |
| Channel                |            |         |           | 647000                      | 650000                         | 665000                       | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3705                        | 3840                           | 3974                         |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 26.20                       | 25.81                          | 25.75                        | 27.0                | 0.0      |  |



| Part27Q_n77_Ant 10 |            |         |           |                     |                        |                      |                     |          |  |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 633332              |                        |                      | 23.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 3499.98             |                        |                      |                     |          |  |
| 100                | P12 BPSK   | 1       | 1         | 21.98               |                        |                      | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 1       | 137       | 22.00               |                        |                      |                     |          |  |
| 100                | P12 BPSK   | 1       | 271       | 21.98               |                        |                      | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 0         | 21.97               |                        |                      |                     |          |  |
| 100                | P12 BPSK   | 135     | 69        |                     | 22.00                  |                      | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 138       |                     | 22.08                  |                      |                     |          |  |
| 100                | P12 BPSK   | 270     | 0         |                     | 22.03                  |                      | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 22.16               |                        |                      |                     |          |  |
| 100                | QPSK       | 1       | 137       | 21.99               |                        |                      | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 22.00               |                        |                      |                     |          |  |
| 100                | QPSK       | 135     | 0         |                     | 22.00                  |                      | 23.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        |                     | 22.11                  |                      |                     |          |  |
| 100                | QPSK       | 135     | 138       |                     | 22.09                  |                      | 23.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         |                     | 22.08                  |                      |                     |          |  |
| 100                | 64QAM      | 1       | 1         |                     | 21.99                  |                      | 23.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                     | 21.78                  |                      |                     |          |  |
| 100                | 256QAM     | 1       | 1         |                     | 19.63                  |                      | 22.5                | 2.5      |  |
| Channel            |            |         |           | 633000              | 633332                 | 633666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3495                | 3499.98                | 3504.99              |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 21.97               | 22.05                  | 22.01                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 630668              | 633332                 | 634000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3490.02             | 3499.98                | 3510                 |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 22.04               | 21.97                  | 21.98                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 632334              | 633332                 | 634332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3485.01             | 3499.98                | 3514.98              |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 22.03               | 21.94                  | 22.02                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 630000              | 633332                 | 634998               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3480                | 3499.98                | 3519.98              |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 22.01               | 22.07                  | 22.00                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 631668              | 633332                 | 635000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3475.02             | 3499.98                | 3505                 |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 22.00               | 21.93                  | 21.93                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 631334              | 633332                 | 635332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3470.01             | 3499.98                | 3509.98              |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 22.01               | 22.04                  | 21.98                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 631000              | 633332                 | 635666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3465                | 3499.98                | 3504.98              |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 22.02               | 21.96                  | 22.04                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 630668              | 633332                 | 636000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3460.02             | 3499.98                | 3500                 |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 22.01               | 21.97                  | 22.03                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 630000              | 633332                 | 636166               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3457.5              | 3499.98                | 3502.49              |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 21.98               | 22.05                  | 22.04                | 23.0                | 0.0      |  |
| Channel            |            |         |           | 630334              | 633332                 | 636332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3455.01             | 3499.98                | 3504.98              |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 22.00               | 21.94                  | 22.01                | 23.0                | 0.0      |  |

| Part27Q_n77_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|--------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 650000               | 650000                  | 650000                | 23.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 3790                 | 3800                    | 3900                  |                     |          |  |
| 100                | P12 BPSK   | 1       | 1         | 21.73                | 21.85                   | 21.77                 | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 1       | 137       | 21.78                | 21.85                   | 21.84                 |                     |          |  |
| 100                | P12 BPSK   | 1       | 271       | 21.77                | 21.83                   | 21.70                 | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 0         | 21.85                | 21.87                   | 21.85                 |                     |          |  |
| 100                | P12 BPSK   | 135     | 69        | 21.95                | 21.99                   | 21.93                 | 23.0                | 0.0      |  |
| 100                | P12 BPSK   | 135     | 138       | 21.91                | 22.03                   | 21.90                 |                     |          |  |
| 100                | P12 BPSK   | 270     | 0         | 21.85                | 22.00                   | 21.88                 | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 22.00                | 22.13                   | 22.04                 |                     |          |  |
| 100                | QPSK       | 1       | 137       | 21.72                | 21.85                   | 21.80                 | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 21.85                | 21.92                   | 21.78                 |                     |          |  |
| 100                | QPSK       | 135     | 0         | 21.85                | 21.92                   | 21.78                 | 23.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 21.93                | 22.03                   | 21.91                 |                     |          |  |
| 100                | QPSK       | 135     | 138       | 21.92                | 21.98                   | 21.89                 | 23.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 21.87                | 22.02                   | 21.99                 |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 21.83                | 21.87                   | 21.72                 | 23.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 21.19                | 21.24                   | 21.16                 |                     |          |  |
| 100                | 256QAM     | 1       | 1         | 19.39                | 19.34                   | 19.25                 | 20.5                | 2.5      |  |
| Channel            |            |         |           | 648668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3782.02              | 3800                    | 3804.98               |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 21.89                | 21.89                   | 21.80                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3740.01              | 3800                    | 3805.98               |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 21.91                | 21.88                   | 21.85                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 649000               | 650000                  | 650500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3735                 | 3800                    | 3805                  |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 21.82                | 21.89                   | 21.84                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 648668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3730.02              | 3800                    | 3804.98               |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 21.82                | 21.98                   | 21.76                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 648334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3725.01              | 3800                    | 3804.98               |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 21.83                | 21.90                   | 21.81                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 648000               | 650000                  | 650000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3720                 | 3800                    | 3800                  |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 21.92                | 22.01                   | 21.89                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 647668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3715.02              | 3800                    | 3804.98               |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 21.88                | 21.95                   | 21.89                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 647334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3710.01              | 3800                    | 3805.98               |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 21.87                | 21.99                   | 21.85                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 647168               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3707.02              | 3800                    | 3872.48               |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 21.84                | 21.97                   | 21.80                 | 23.0                | 0.0      |  |
| Channel            |            |         |           | 647000               | 650000                  | 650000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3705                 | 3800                    | 3875                  |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 21.84                | 21.90                   | 21.87                 | 23.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332               |                         |                       | 25.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3499.98              |                         |                       |                     |          |  |
| 100                     | P12 BPSK   | 1       | 1         | 24.03                | 24.03                   | 24.03                 | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 1       | 137       | 23.96                | 23.96                   | 23.96                 |                     |          |  |
| 100                     | P12 BPSK   | 1       | 271       | 24.03                | 24.03                   | 24.03                 | 25.0                | 0.5      |  |
| 100                     | P12 BPSK   | 135     | 0         | 23.95                | 23.95                   | 23.95                 |                     |          |  |
| 100                     | P12 BPSK   | 135     | 69        | 23.91                | 23.91                   | 23.91                 | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 138       | 23.03                | 23.03                   | 23.03                 |                     |          |  |
| 100                     | P12 BPSK   | 270     | 0         | 23.92                | 23.92                   | 23.92                 | 25.0                | 0.5      |  |
| 100                     | QPSK       | 1       | 1         | 24.13                | 24.13                   | 24.13                 |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 23.31                | 23.31                   | 23.31                 | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 22.02                | 22.02                   | 22.02                 |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 23.92                | 23.92                   | 23.92                 | 25.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        | 23.46                | 23.46                   | 23.46                 |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 22.23                | 22.23                   | 22.23                 | 24.0                | 1.0      |  |
| 100                     | QPSK       | 270     | 0         | 22.72                | 22.72                   | 22.72                 |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 24.12                | 24.12                   | 24.12                 | 24.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 23.71                | 23.71                   | 23.71                 |                     |          |  |
| 100                     | 256QAM     | 1       | 1         | 19.64                | 19.64                   | 19.64                 | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 633662               |                         |                       | 23.8                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 633662               |                         |                       |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 24.03                | 24.07                   | 23.98                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 633266               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 633266               |                         |                       |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 24.02                | 23.99                   | 24.11                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 634334               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 634334               |                         |                       |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 24.02                | 23.99                   | 24.11                 | 23.0                | 0.0      |  |
| Channel                 |            |         |           | 634666               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 634666               |                         |                       |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 24.08                | 24.04                   | 23.99                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 635000               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 635000               |                         |                       |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 24.06                | 23.98                   | 24.07                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 635332               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 635332               |                         |                       |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 23.99                | 24.06                   | 24.08                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 635666               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 635666               |                         |                       |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 24.10                | 24.08                   | 24.05                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 636000               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 636000               |                         |                       |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 24.02                | 24.02                   | 24.10                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 636332               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 636332               |                         |                       |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 24.06                | 23.98                   | 24.05                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 636666               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 636666               |                         |                       |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 24.11                | 24.06                   | 23.99                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 637000               |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 637000               |                         |                       |                     |          |  |



| Part270_n77_HPUe_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 655000               | 656000                  | 662000                | 25.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3750                 | 3840                    | 3930                  |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 1         | 23.19                | 23.20                   | 23.19                 | 25.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 1       | 137       | 23.29                | 23.37                   | 23.33                 |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 271       | 23.31                | 23.40                   | 23.32                 |                     |          |  |
| 100                     | Pi2 BPSK   | 135     | 0         | 23.17                | 23.22                   | 23.19                 | 24.5                | 0.5      |  |
| 100                     | Pi2 BPSK   | 135     | 69        | 23.31                | 23.34                   | 23.22                 | 25.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 135     | 138       | 23.20                | 23.34                   | 23.22                 | 24.5                | 0.5      |  |
| 100                     | Pi2 BPSK   | 270     | 0         | 23.23                | 23.36                   | 23.21                 | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 23.35                | 23.41                   | 23.37                 |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 23.22                | 23.36                   | 23.21                 |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 23.24                | 23.35                   | 23.22                 | 25.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 22.86                | 22.71                   | 22.76                 |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 23.25                | 23.35                   | 23.33                 |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 22.72                | 22.81                   | 22.86                 | 24.0                | 1.0      |  |
| 100                     | QPSK       | 270     | 0         | 22.71                | 22.82                   | 22.70                 |                     |          |  |
| 100                     | 64QAM      | 1       | 1         | 22.67                | 22.71                   | 22.81                 | 24.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 21.35                | 21.48                   | 21.42                 | 22.5                | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         | 19.25                | 19.36                   | 19.27                 | 20.5                | 4.5      |  |
| Channel                 |            |         |           | 649968               | 650000                  | 662332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3743.02              | 3840                    | 3934.98               | 25.0                | 0.0      |  |
| 90                      | QPSK       | 1       | 1         | 23.25                | 23.36                   | 23.34                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 648334               | 656000                  | 662666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3740.01              | 3840                    | 3939.99               | 25.0                | 0.0      |  |
| 80                      | QPSK       | 1       | 1         | 23.25                | 23.28                   | 23.23                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 646500               | 656000                  | 663000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3735                 | 3840                    | 3945                  | 25.0                | 0.0      |  |
| 70                      | QPSK       | 1       | 1         | 23.35                | 23.34                   | 23.27                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 644904               | 656000                  | 663332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3730.02              | 3840                    | 3940.98               | 25.0                | 0.0      |  |
| 60                      | QPSK       | 1       | 1         | 23.25                | 23.31                   | 23.24                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 648334               | 656000                  | 663666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3723.01              | 3840                    | 3954.99               | 25.0                | 0.0      |  |
| 50                      | QPSK       | 1       | 1         | 23.22                | 23.27                   | 23.14                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 648000               | 656000                  | 664000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                 | 3840                    | 3960                  | 25.0                | 0.0      |  |
| 40                      | QPSK       | 1       | 1         | 23.21                | 23.28                   | 23.31                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 647100               | 656000                  | 664332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3715.02              | 3840                    | 3964.98               | 25.0                | 0.0      |  |
| 30                      | QPSK       | 1       | 1         | 23.34                | 23.40                   | 23.23                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 647334               | 656000                  | 664666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3710.01              | 3840                    | 3969.99               | 25.0                | 0.0      |  |
| 20                      | QPSK       | 1       | 1         | 23.25                | 23.33                   | 23.30                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 647166               | 656000                  | 664832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52              | 3840                    | 3972.48               | 25.0                | 0.0      |  |
| 15                      | QPSK       | 1       | 1         | 23.32                | 23.37                   | 23.25                 | 25.0                | 0.0      |  |
| Channel                 |            |         |           | 647000               | 656000                  | 665000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3705                 | 3840                    | 3975                  | 25.0                | 0.0      |  |
| 10                      | QPSK       | 1       | 1         | 23.34                | 23.27                   | 23.25                 | 25.0                | 0.0      |  |

| Part270_n77_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                      |                         |                       | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         | 21.34                | 21.34                   | 21.34                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 137       | 21.33                | 21.33                   | 21.42                 |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 271       | 21.42                | 21.42                   | 21.36                 |                     |          |  |
| 100               | Pi2 BPSK   | 135     | 0         | 21.32                | 21.32                   | 21.30                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69        | 21.36                | 21.36                   | 21.30                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 138       | 21.43                | 21.43                   | 21.36                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 270     | 0         | 21.36                | 21.36                   | 21.36                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 21.48                | 21.48                   | 21.36                 |                     |          |  |
| 100               | QPSK       | 1       | 137       | 21.36                | 21.36                   | 21.43                 |                     |          |  |
| 100               | QPSK       | 1       | 271       | 21.43                | 21.43                   | 21.41                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 21.42                | 21.42                   | 21.44                 |                     |          |  |
| 100               | QPSK       | 135     | 69        | 21.44                | 21.44                   | 21.42                 |                     |          |  |
| 100               | QPSK       | 135     | 138       | 21.42                | 21.42                   | 21.43                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 21.43                | 21.43                   | 21.41                 | 23.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 21.41                | 21.41                   | 21.35                 | 23.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 21.35                | 21.35                   | 21.35                 | 23.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 21.33                | 21.33                   | 21.33                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 633000               | 633332                  | 639666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3486                 | 3489.98                 | 3514.98               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 21.32                | 21.37                   | 21.26                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02              | 3499.98                 | 3510                  |                     |          |  |
| 80                | QPSK       | 1       | 1         | 21.35                | 21.29                   | 21.35                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |  |
| 70                | QPSK       | 1       | 1         | 21.36                | 21.34                   | 21.26                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                 | 3499.98                 | 3519.98               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 21.38                | 21.35                   | 21.27                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02              | 3499.98                 | 3525                  |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.29                | 21.26                   | 21.33                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |  |
| 40                | QPSK       | 1       | 1         | 21.30                | 21.34                   | 21.26                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                 | 3499.98                 | 3534.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 21.35                | 21.29                   | 21.39                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |  |
| 20                | QPSK       | 1       | 1         | 21.36                | 21.40                   | 21.30                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 630300               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.48               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 21.35                | 21.28                   | 21.40                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |  |
| 10                | QPSK       | 1       | 1         | 21.39                | 21.26                   | 21.34                 | 23.0                | 0.0      |  |

| Part270_n77_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 665000               | 665000                  | 663000                | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3750                 | 3840                    | 3930                  |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         | 21.18                | 21.32                   | 21.21                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 137       | 21.15                | 21.26                   | 21.24                 |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 271       | 21.23                | 21.36                   | 21.22                 |                     |          |  |
| 100               | Pi2 BPSK   | 135     | 0         | 21.21                | 21.27                   | 21.18                 | 23.0                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69        | 21.10                | 21.23                   | 21.12                 |                     |          |  |
| 100               | Pi2 BPSK   | 135     | 138       | 21.22                | 21.37                   | 21.31                 |                     |          |  |
| 100               | Pi2 BPSK   | 270     | 0         | 21.28                | 21.33                   | 21.26                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 21.37                | 21.46                   | 21.44                 |                     |          |  |
| 100               | QPSK       | 1       | 137       | 21.22                | 21.28                   | 21.21                 |                     |          |  |
| 100               | QPSK       | 1       | 271       | 21.27                | 21.41                   | 21.28                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 21.29                | 21.37                   | 21.31                 |                     |          |  |
| 100               | QPSK       | 135     | 69        | 21.41                | 21.42                   | 21.32                 |                     |          |  |
| 100               | QPSK       | 135     | 138       | 21.21                | 21.28                   | 21.22                 | 23.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 21.31                | 21.40                   | 21.38                 |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 21.30                | 21.37                   | 21.36                 |                     |          |  |
| 100               | 64QAM      | 1       | 1         | 21.28                | 21.32                   | 21.29                 | 23.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 21.05                | 21.19                   | 21.15                 |                     |          |  |
| Channel           |            |         |           | 665000               | 665000                  | 663000                |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                 | 3840                    | 3930                  |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.33                | 21.37                   | 21.29                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 646334               | 656000                  | 662666                |                     |          |  |
| 50                | QPSK       | 1       | 137       | 21.01                | 21.04                   | 21.01                 | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3740.01              | 3840                    | 3930.01               |                     |          |  |
| 80                | QPSK       | 1       | 1         | 21.23                | 21.34                   | 21.39                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 649000               | 656000                  | 663000                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 3735                 | 3840                    | 3945                  | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3730.01              | 3840                    | 3945.01               |                     |          |  |
| 70                | QPSK       | 1       | 1         | 21.29                | 21.35                   | 21.40                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647004               | 656000                  | 663000                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 21.30                | 21.32                   | 21.33                 | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3730.02              | 3840                    | 3943.98               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 3731                 | 3840                    | 3943.98               | 23.0                | 0.0      |  |
| Channel           |            |         |           | 646334               | 656000                  | 663666                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 3745.01              | 3840                    | 3945.01               | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3740.01              | 3840                    | 3945.01               |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.21                | 21.30                   | 21.37                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 648000               | 656000                  | 664000                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 3730                 | 3840                    | 3940                  | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3730                 | 3840                    | 3940                  |                     |          |  |
| 40                | QPSK       | 1       | 1         | 21.29                | 21.38                   | 21.34                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647004               | 656000                  | 663000                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 3715.92              | 3840                    | 3943.98               | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3715.92              | 3840                    | 3943.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 21.20                | 21.33                   | 21.30                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647334               | 656000                  | 664666                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 3743.01              | 3840                    | 3943.98               | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3743.01              | 3840                    | 3943.98               |                     |          |  |
| 20                | QPSK       | 1       | 1         | 21.25                | 21.39                   | 21.31                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647168               | 656000                  | 664632                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 3767.52              | 3840                    | 3937.48               | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3767.52              | 3840                    | 3937.48               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 21.22                | 21.31                   | 21.36                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647000               | 656000                  | 664000                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 3705                 | 3840                    | 3975                  | 23.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3705                 | 3840                    | 3975                  |                     |          |  |
| 10                | QPSK       | 1       | 1         | 21.28                | 21.29                   | 21.40                 | 23.0                | 0.0      |  |
| Channel           |            |         |           | 647000               | 656000                  | 664000                |                     |          |  |



| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |                              |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|------------------------------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                     |  |
| Channel                |            |         |           | 633332                |                          |                        | 25.0                | 0.0                          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |                              |  |
| 100                    | Pi2 BPSK   | 1       | 1         | 23.70                 |                          |                        | 25.0                | 0.0                          |  |
| 100                    | Pi2 BPSK   | 1       | 137       | 23.67                 |                          |                        |                     |                              |  |
| 100                    | Pi2 BPSK   | 1       | 271       | 23.69                 |                          |                        | 24.5                | 0.5                          |  |
| 100                    | Pi2 BPSK   | 135     | 0         | 23.32                 |                          |                        |                     |                              |  |
| 100                    | Pi2 BPSK   | 135     | 69        | 23.80                 |                          |                        | 25.0                | 0.0                          |  |
| 100                    | Pi2 BPSK   | 135     | 138       | 23.36                 |                          |                        |                     |                              |  |
| 100                    | Pi2 BPSK   | 270     | 0         | 23.25                 |                          |                        | 24.5                | 0.5                          |  |
| 100                    | QPSK       | 1       | 1         | 23.95                 |                          |                        |                     |                              |  |
| 100                    | QPSK       | 1       | 137       | 23.46                 |                          |                        | 25.0                | 0.0                          |  |
| 100                    | QPSK       | 1       | 271       | 23.34                 |                          |                        |                     |                              |  |
| 100                    | QPSK       | 135     | 0         | 22.78                 |                          |                        | 25.0                | 0.0                          |  |
| 100                    | QPSK       | 135     | 69        | 23.75                 |                          |                        |                     |                              |  |
| 100                    | QPSK       | 135     | 138       | 22.42                 |                          |                        | 24.0                | 1.0                          |  |
| 100                    | QPSK       | 270     | 0         | 22.67                 |                          |                        |                     |                              |  |
| 100                    | 16QAM      | 1       | 1         | 22.94                 |                          |                        | 24.0                | 1.0                          |  |
| 100                    | 64QAM      | 1       | 1         | 21.38                 |                          |                        |                     |                              |  |
| 100                    | 256QAM     | 1       | 1         | 21.33                 |                          |                        | 23.0                | 2.0                          |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB)                     |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     | 25.0                         |  |
| 90                     | QPSK       | 1       | 1         | 23.80                 | 23.89                    | 23.82                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3510                   | 25.0                |                              |  |
| 80                     | QPSK       | 1       | 1         | 23.81                 | 23.81                    | 23.80                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 633234                | 633332                   | 633432                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 25.0                |                              |  |
| 70                     | QPSK       | 1       | 1         | 23.86                 | 23.89                    | 23.94                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                | 25.0                |                              |  |
| 60                     | QPSK       | 1       | 1         | 23.81                 | 23.81                    | 23.88                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | 25.0                |                              |  |
| 50                     | QPSK       | 1       | 1         | 23.85                 | 23.81                    | 23.92                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 25.0                |                              |  |
| 40                     | QPSK       | 1       | 1         | 23.93                 | 23.81                    | 23.81                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.99                | 25.0                |                              |  |
| 30                     | QPSK       | 1       | 1         | 23.91                 | 23.88                    | 23.90                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | 25.0                |                              |  |
| 20                     | QPSK       | 1       | 1         | 23.81                 | 23.88                    | 23.92                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 630300                | 633332                   | 636166                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 25.0                |                              |  |
| 15                     | QPSK       | 1       | 1         | 23.89                 | 23.93                    | 23.94                  | 25.0                | 0.0                          |  |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 |                     | Tune-up limit (dBm) MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 25.0                |                              |  |
| 10                     | QPSK       | 1       | 1         | 23.85                 | 23.90                    | 23.84                  | 25.0                | 0.0                          |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                |                          |                        | 25.0                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3790                  | 3840                     | 3900                   |                     |          |  |
| 100                    | Pi2 BPSK   | 1       | 1         | 23.99                 | 23.72                    | 23.68                  | 25.0                | 0.0      |  |
| 100                    | Pi2 BPSK   | 1       | 137       | 23.60                 | 23.75                    | 23.72                  |                     |          |  |
| 100                    | Pi2 BPSK   | 1       | 271       | 23.60                 | 23.78                    | 23.71                  | 24.5                | 0.5      |  |
| 100                    | Pi2 BPSK   | 135     | 0         | 23.00                 | 23.19                    | 23.14                  |                     |          |  |
| 100                    | Pi2 BPSK   | 135     | 69        | 23.47                 | 23.84                    | 23.58                  | 25.0                | 0.0      |  |
| 100                    | Pi2 BPSK   | 135     | 138       | 22.86                 | 23.18                    | 23.10                  |                     |          |  |
| 100                    | Pi2 BPSK   | 270     | 0         | 22.92                 | 23.11                    | 23.02                  | 24.5                | 0.5      |  |
| 100                    | QPSK       | 1       | 1         | 23.69                 | 23.82                    | 23.77                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 23.67                 | 23.75                    | 23.69                  | 25.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 23.86                 | 23.72                    | 23.68                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 22.46                 | 22.80                    | 22.48                  | 25.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 23.45                 | 23.80                    | 23.45                  |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 22.83                 | 22.45                    | 22.35                  | 24.0                | 1.0      |  |
| 100                    | QPSK       | 270     | 0         | 22.37                 | 22.49                    | 22.44                  |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 22.70                 | 22.86                    | 22.82                  | 24.0                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.21                 | 21.31                    | 21.25                  |                     |          |  |
| 100                    | 256QAM     | 1       | 1         | 21.05                 | 21.19                    | 21.15                  | 23.0                | 2.0      |  |
| Channel                |            |         |           | 648668                | 650000                   | 652332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3783.02               | 3840                     | 3904.98                | 25.0                |          |  |
| 90                     | QPSK       | 1       | 1         | 23.99                 | 23.81                    | 23.72                  | 25.0                |          |  |
| Channel                |            |         |           | 648334                | 650000                   | 652666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3840                     | 3909.98                | 25.0                |          |  |
| 80                     | QPSK       | 1       | 1         | 23.05                 | 23.75                    | 23.63                  | 25.0                |          |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   | 25.0                |          |  |
| 70                     | QPSK       | 1       | 1         | 23.67                 | 23.70                    | 23.74                  | 25.0                |          |  |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3840                     | 3945.98                | 25.0                |          |  |
| 60                     | QPSK       | 1       | 1         | 23.58                 | 23.73                    | 23.73                  | 25.0                |          |  |
| Channel                |            |         |           | 648334                | 650000                   | 652666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3840                     | 3944.98                | 25.0                |          |  |
| 50                     | QPSK       | 1       | 1         | 23.66                 | 23.80                    | 23.68                  | 25.0                |          |  |
| Channel                |            |         |           | 648000                | 650000                   | 654000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3725                  | 3840                     | 3960                   | 25.0                |          |  |
| 40                     | QPSK       | 1       | 1         | 23.69                 | 23.79                    | 23.66                  | 25.0                |          |  |
| Channel                |            |         |           | 647668                | 650000                   | 654332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3964.98                | 25.0                |          |  |
| 30                     | QPSK       | 1       | 1         | 23.68                 | 23.72                    | 23.75                  | 25.0                |          |  |
| Channel                |            |         |           | 647334                | 650000                   | 654666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3965.98                | 25.0                |          |  |
| 20                     | QPSK       | 1       | 1         | 23.81                 | 23.81                    | 23.82                  | 25.0                |          |  |
| Channel                |            |         |           | 647168                | 650000                   | 654832                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3840                     | 3972.48                | 25.0                |          |  |
| 15                     | QPSK       | 1       | 1         | 23.59                 | 23.69                    | 23.72                  | 25.0                |          |  |
| Channel                |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3840                     | 3975                   | 25.0                |          |  |
| 10                     | QPSK       | 1       | 1         | 23.82                 | 23.81                    | 23.68                  | 25.0                |          |  |

| Part27Q_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          |                        | 22.09               | 23.5     |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         |                       | 22.09                    |                        | 22.10               | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 137       |                       | 22.10                    |                        |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 271       |                       | 21.98                    |                        | 22.01               | 23.5     |  |
| 100               | Pi2 BPSK   | 135     | 0         |                       | 22.01                    |                        |                     |          |  |
| 100               | Pi2 BPSK   | 135     | 69        |                       | 22.08                    |                        | 22.10               | 23.5     |  |
| 100               | Pi2 BPSK   | 135     | 138       |                       | 22.10                    |                        |                     |          |  |
| 100               | Pi2 BPSK   | 270     | 0         |                       | 22.00                    |                        | 22.00               | 23.5     |  |
| 100               | Pi2 BPSK   | 270     | 0         |                       | 22.00                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 22.11                    |                        | 22.08               | 23.5     |  |
| 100               | QPSK       | 1       | 137       |                       | 22.07                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       |                       | 22.08                    |                        | 22.07               | 23.5     |  |
| 100               | QPSK       | 135     | 0         |                       | 21.98                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 22.05                    |                        | 22.05               | 23.5     |  |
| 100               | QPSK       | 135     | 138       |                       | 22.05                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 22.02                    |                        | 22.02               | 23.5     |  |
| 100               | QPSK       | 270     | 0         |                       | 22.02                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 22.00                    |                        | 22.00               | 23.5     |  |
| 100               | 64QAM      | 1       | 1         |                       | 21.64                    |                        |                     |          |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.66                    |                        | 23.0                | 2.5      |  |
| Channel           |            |         |           | 633300                |                          |                        | 22.09               | 23.5     |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.04                 | 22.05                    | 20.98                  | 21.98               | 0.0      |  |
| Channel           |            |         |           | 632668                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.03                 | 22.08                    | 21.98                  | 21.98               | 0.0      |  |
| Channel           |            |         |           | 632634                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.03                 | 22.00                    | 22.08                  | 22.00               | 23.5     |  |
| Channel           |            |         |           | 632634                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.03                 | 22.06                    | 21.98                  | 22.06               | 0.0      |  |
| Channel           |            |         |           | 632634                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.07                 | 22.08                    | 22.07                  | 22.07               | 23.5     |  |
| Channel           |            |         |           | 632634                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.10                 | 21.98                    | 21.98                  | 21.98               | 0.0      |  |
| Channel           |            |         |           | 631300                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.05                 | 21.98                    | 22.05                  | 22.05               | 23.5     |  |
| Channel           |            |         |           | 630968                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.00                 | 22.02                    | 22.03                  | 22.02               | 23.5     |  |
| Channel           |            |         |           | 630500                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.04                 | 22.02                    | 22.06                  | 22.02               | 23.5     |  |
| Channel           |            |         |           | 630511                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 22.09                 | 22.05                    | 22.02                  | 22.05               | 0.0      |  |
| Channel           |            |         |           | 630968                |                          |                        |                     |          |  |





| Part27Q_n78_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 65000                |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                 |                         |                       |                     |          |  |
| 100               | P12 BPSK   | 1       | 1         | 22.49                | 22.49                   |                       | 23.5                |          |  |
| 100               | P12 BPSK   | 1       | 137       | 22.46                | 22.46                   |                       |                     | 0.0      |  |
| 100               | P12 BPSK   | 1       | 271       | 22.44                | 22.44                   |                       |                     |          |  |
| 100               | P12 BPSK   | 135     | 0         | 22.48                | 22.48                   |                       | 23.5                | 0.5      |  |
| 100               | P12 BPSK   | 135     | 69        | 22.51                | 22.51                   |                       | 23.5                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 138       | 22.38                | 22.38                   |                       | 23.5                | 0.0      |  |
| 100               | P12 BPSK   | 270     | 0         | 22.38                | 22.38                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         | 22.53                | 22.53                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 22.38                | 22.38                   |                       | 23.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 22.38                | 22.38                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         | 22.42                | 22.42                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        | 22.59                | 22.59                   |                       | 23.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 22.41                | 22.41                   |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 22.47                | 22.47                   |                       |                     | 23.5     |  |
| 100               | 64QAM      | 1       | 1         | 22.51                | 22.51                   |                       | 23.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 22.05                | 22.05                   |                       | 23.0                | 0.5      |  |
| 100               | 256QAM     | 1       | 1         | 20.03                | 20.03                   |                       | 21.0                | 2.5      |  |
| Channel           |            |         |           | 649968               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3743.02              | 3750                    | 3758.98               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.42                | 22.39                   | 22.44                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 648334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.43                | 22.50                   | 22.46                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 649500               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.38                | 22.43                   | 22.50                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 649008               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.47                | 22.51                   | 22.49                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.52                | 22.52                   | 22.50                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.41                | 22.40                   | 22.41                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 647100               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.42                | 22.48                   | 22.51                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.46                | 22.52                   | 22.40                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 647166               | 650000                  | 652832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.43                | 22.29                   | 22.43                 | 23.5                | 0.0      |  |
| Channel           |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |  |
| 10                | QPSK       | 1       | 1         | 22.48                | 22.46                   | 22.49                 | 23.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633000               |                         | 633332                |                     |          |  |
| Frequency (MHz)        |            |         |           | 3499.98              |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 1       | 1         | 24.07                | 24.07                   |                       | 25.5                |          |  |
| 100                    | P12 BPSK   | 1       | 137       | 24.05                | 24.05                   |                       |                     | 0.0      |  |
| 100                    | P12 BPSK   | 1       | 271       | 23.83                | 23.83                   |                       |                     |          |  |
| 100                    | P12 BPSK   | 135     | 0         | 23.68                | 23.68                   |                       | 25.0                | 0.5      |  |
| 100                    | P12 BPSK   | 135     | 69        | 24.10                | 24.10                   |                       | 25.0                | 0.0      |  |
| 100                    | P12 BPSK   | 135     | 138       | 23.63                | 23.63                   |                       | 25.0                | 0.5      |  |
| 100                    | P12 BPSK   | 270     | 0         | 23.86                | 23.86                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 24.15                | 24.15                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 23.59                | 23.59                   |                       | 25.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 23.51                | 23.51                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 24.02                | 24.02                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 23.94                | 23.94                   |                       | 25.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 22.56                | 22.56                   |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 23.06                | 23.06                   |                       | 24.5                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         | 23.19                | 23.19                   |                       | 24.5                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 21.84                | 21.84                   |                       | 23.0                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 19.66                | 19.66                   |                       | 21.0                | 4.5      |  |
| Channel                |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 24.14                | 24.02                   | 24.11                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3490.02              | 3499.98                 | 3503                  |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 24.14                | 24.12                   | 24.06                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 24.03                | 24.06                   | 24.11                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                 | 3499.98                 | 3519.98               |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 24.12                | 24.04                   | 24.02                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02              | 3499.98                 | 3525                  |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 24.04                | 24.10                   | 24.07                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 24.02                | 24.00                   | 24.11                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465.01              | 3499.98                 | 3534.98               |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 24.09                | 24.13                   | 24.01                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 24.01                | 24.10                   | 24.10                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 630300               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.3               | 3499.98                 | 3542.48               |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 24.03                | 24.01                   | 24.01                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 24.09                | 24.05                   | 24.13                 | 25.5                | 0.0      |  |

| Part27O_n78 HPUE_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 640000               |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                 |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 1       | 1         | 24.44                | 24.44                   |                       | 25.5                |          |  |
| 100                    | P12 BPSK   | 1       | 137       | 24.45                | 24.45                   |                       |                     | 0.0      |  |
| 100                    | P12 BPSK   | 1       | 271       | 24.26                | 24.26                   |                       |                     |          |  |
| 100                    | P12 BPSK   | 135     | 0         | 23.92                | 23.92                   |                       | 25.0                | 0.5      |  |
| 100                    | P12 BPSK   | 135     | 69        | 24.39                | 24.39                   |                       | 25.0                | 0.0      |  |
| 100                    | P12 BPSK   | 135     | 138       | 23.82                | 23.82                   |                       | 25.0                | 0.5      |  |
| 100                    | P12 BPSK   | 270     | 0         | 23.88                | 23.88                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 24.59                | 24.59                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 24.51                | 24.51                   |                       | 25.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 24.41                | 24.41                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 23.45                | 23.45                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 24.51                | 24.51                   |                       | 25.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 23.28                | 23.28                   |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 23.37                | 23.37                   |                       | 24.5                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         | 23.61                | 23.61                   |                       | 24.5                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 22.05                | 22.05                   |                       | 23.0                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 20.03                | 20.03                   |                       | 21.0                | 4.5      |  |
| Channel                |            |         |           | 658966               | 650000                  | 650332                | Tune-up limit (dBm) | 1.5, 1.8 |  |
| Frequency (MHz)        |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 24.44                | 24.49                   | 24.48                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6469234              | 6500000                 | 6500666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01              | 3750                    | 3759.99               |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 24.47                | 24.47                   | 24.54                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6496000              | 6500000                 | 6510000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 24.58                | 24.52                   | 24.47                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6490000              | 6500000                 | 6515000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02              | 3750                    | 3760.98               |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 24.46                | 24.53                   | 24.56                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6468234              | 6500000                 | 6516666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 24.50                | 24.52                   | 24.54                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6486000              | 6500000                 | 6520000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 24.58                | 24.54                   | 24.57                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6470000              | 6500000                 | 6525000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 24.51                | 24.53                   | 24.56                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6473234              | 6500000                 | 6526666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3716.01              | 3750                    | 3788.99               |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 24.57                | 24.48                   | 24.54                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6421666              | 6500000                 | 6528332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 24.53                | 24.46                   | 24.50                 | 25.5                | 0.0      |  |
| Channel                |            |         |           | 6410000              | 6500000                 | 6530000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 24.45                | 24.52                   | 24.53                 | 25.5                | 0.0      |  |



| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         |                       | 22.78                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 1       | 137       |                       | 22.89                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 271       |                       | 22.84                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 135     | 0         |                       | 22.79                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69        |                       | 22.90                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 135     | 138       |                       | 22.91                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 270     | 0         |                       | 22.79                    |                        | 24.0                |          |  |
| 100               | QPSK       | 1       | 1         |                       | 22.93                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 22.89                    |                        | 24.0                |          |  |
| 100               | QPSK       | 1       | 271       |                       | 22.90                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.89                    |                        | 24.0                |          |  |
| 100               | QPSK       | 135     | 69        |                       | 22.91                    |                        |                     | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 22.86                    |                        | 24.0                |          |  |
| 100               | QPSK       | 270     | 0         |                       | 22.80                    |                        |                     | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.91                    |                        | 24.0                |          |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.81                    |                        |                     | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 22.96                    |                        | 23.5                | 0.5      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         |                       | 22.85                    | 22.89                  | 22.87               | 24.0     |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         |                       | 22.85                    | 22.80                  | 22.82               | 24.0     |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         |                       | 22.89                    | 22.92                  | 22.86               | 24.0     |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         |                       | 22.85                    | 22.90                  | 22.79               | 24.0     |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3505                   |                     |          |  |
| 50                | QPSK       | 1       | 1         |                       | 22.83                    | 22.92                  | 22.85               | 24.0     |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         |                       | 22.86                    | 22.78                  | 22.89               | 24.0     |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         |                       | 22.83                    | 22.90                  | 22.81               | 24.0     |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         |                       | 22.79                    | 22.83                  | 22.86               | 24.0     |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 15                | QPSK       | 1       | 1         |                       | 22.82                    | 22.90                  | 22.82               | 24.0     |  |
| Channel           |            |         |           | 630000                | 633332                   | 636666                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3450.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         |                       | 22.81                    | 22.85                  | 22.79               | 24.0     |  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         |                       | 23.26                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 1       | 137       |                       | 23.29                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 271       |                       | 23.28                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 135     | 0         |                       | 23.29                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69        |                       | 23.22                    |                        | 24.0                |          |  |
| 100               | Pi2 BPSK   | 135     | 138       |                       | 23.25                    |                        |                     | 0.0      |  |
| 100               | Pi2 BPSK   | 270     | 0         |                       | 23.24                    |                        | 24.0                |          |  |
| 100               | QPSK       | 1       | 1         |                       | 23.31                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 23.27                    |                        | 24.0                |          |  |
| 100               | QPSK       | 1       | 271       |                       | 23.20                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 23.22                    |                        | 24.0                |          |  |
| 100               | QPSK       | 135     | 69        |                       | 23.28                    |                        |                     | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 23.16                    |                        | 24.0                |          |  |
| 100               | QPSK       | 270     | 0         |                       | 23.25                    |                        |                     | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 23.16                    |                        | 24.0                |          |  |
| 100               | 64QAM      | 1       | 1         |                       | 23.24                    |                        |                     | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 22.92                    |                        | 23.5                | 0.5      |  |
| Channel           |            |         |           | 648668                | 650000                   | 650332                 | Tune-up limit (dBm) |          |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         |                       | 23.17                    | 23.23                  | 23.26               | 24.0     |  |
| Channel           |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.98                |                     |          |  |
| 80                | QPSK       | 1       | 1         |                       | 23.26                    | 23.29                  | 23.19               | 24.0     |  |
| Channel           |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                | QPSK       | 1       | 1         |                       | 23.16                    | 23.18                  | 23.25               | 24.0     |  |
| Channel           |            |         |           | 647668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         |                       | 23.24                    | 23.17                  | 23.24               | 24.0     |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.98                |                     |          |  |
| 50                | QPSK       | 1       | 1         |                       | 23.30                    | 23.24                  | 23.24               | 24.0     |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                | QPSK       | 1       | 1         |                       | 23.28                    | 23.25                  | 23.18               | 24.0     |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         |                       | 23.30                    | 23.19                  | 23.16               | 24.0     |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.98                |                     |          |  |
| 20                | QPSK       | 1       | 1         |                       | 23.28                    | 23.27                  | 23.27               | 24.0     |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                | QPSK       | 1       | 1         |                       | 23.19                    | 23.19                  | 23.20               | 24.0     |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                | QPSK       | 1       | 1         |                       | 23.16                    | 23.26                  | 23.18               | 24.0     |  |

| Part27Q_n78 HPUE_Ant 7                                                  |            |         |           |                                                |                          |                        |                              |          |  |
|-------------------------------------------------------------------------|------------|---------|-----------|------------------------------------------------|--------------------------|------------------------|------------------------------|----------|--|
| BW [MHz]                                                                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq.                          | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm)          | MPR (dB) |  |
| Channel <td colspan="2">633332<td></td><td></td><td></td><td></td></td> |            |         |           | 633332 <td></td> <td></td> <td></td> <td></td> |                          |                        |                              |          |  |
| Frequency (MHz)                                                         |            |         |           | 3499.98                                        |                          |                        |                              |          |  |
| 100                                                                     | Pi2 BPSK   | 1       | 1         |                                                | 25.73                    |                        | 27.0                         |          |  |
| 100                                                                     | Pi2 BPSK   | 1       | 137       |                                                | 25.92                    |                        |                              | 0.0      |  |
| 100                                                                     | Pi2 BPSK   | 1       | 271       |                                                | 25.96                    |                        | 27.0                         |          |  |
| 100                                                                     | Pi2 BPSK   | 135     | 0         |                                                | 25.88                    |                        |                              | 0.0      |  |
| 100                                                                     | Pi2 BPSK   | 135     | 69        |                                                | 25.92                    |                        | 27.0                         |          |  |
| 100                                                                     | Pi2 BPSK   | 135     | 138       |                                                | 25.94                    |                        |                              | 0.0      |  |
| 100                                                                     | Pi2 BPSK   | 270     | 0         |                                                | 25.95                    |                        | 27.0                         |          |  |
| 100                                                                     | QPSK       | 1       | 1         |                                                | 25.99                    |                        |                              |          |  |
| 100                                                                     | QPSK       | 1       | 137       |                                                | 25.98                    |                        | 27.0                         |          |  |
| 100                                                                     | QPSK       | 1       | 271       |                                                | 25.82                    |                        |                              |          |  |
| 100                                                                     | QPSK       | 135     | 0         |                                                | 25.69                    |                        | 27.0                         |          |  |
| 100                                                                     | QPSK       | 135     | 69        |                                                | 25.95                    |                        |                              | 0.0      |  |
| 100                                                                     | QPSK       | 135     | 138       |                                                | 25.36                    |                        | 26.5                         |          |  |
| 100                                                                     | QPSK       | 270     | 0         |                                                | 25.30                    |                        |                              | 0.5      |  |
| 100                                                                     | 64QAM      | 1       | 1         |                                                | 25.91                    |                        | 25.5                         |          |  |
| 100                                                                     | 64QAM      | 1       | 1         |                                                | 24.61                    |                        |                              | 1.5      |  |
| 100                                                                     | 256QAM     | 1       | 1         |                                                | 22.56                    |                        | 23.5                         | 3.5      |  |
| Channel                                                                 |            |         |           | 633000                                         | 633332                   | 633666                 | Tune-up limit (dBm)          |          |  |
| Frequency (MHz)                                                         |            |         |           | 3495                                           | 3499.98                  | 3504.99                |                              |          |  |
| 90                                                                      | QPSK       | 1       | 1         | 25.74                                          | 25.83                    | 25.72                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 632668                                         | 633332                   | 634000                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3490.02                                        | 3499.98                  | 3510                   |                              |          |  |
| 80                                                                      | QPSK       | 1       | 1         | 25.75                                          | 25.81                    | 25.76                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 632334                                         | 633332                   | 634332                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3485.01                                        | 3499.98                  | 3514.98                |                              |          |  |
| 70                                                                      | QPSK       | 1       | 1         | 25.77                                          | 25.82                    | 25.72                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 632000                                         | 633332                   | 634666                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3480                                           | 3499.98                  | 3519.99                |                              |          |  |
| 60                                                                      | QPSK       | 1       | 1         | 25.83                                          | 25.75                    | 25.70                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 631666                                         | 633332                   | 635000                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3475.02                                        | 3499.98                  | 3525                   |                              |          |  |
| 50                                                                      | QPSK       | 1       | 1         | 25.73                                          | 25.76                    | 25.75                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 631332                                         | 633332                   | 635332                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3470.01                                        | 3499.98                  | 3529.98                |                              |          |  |
| 40                                                                      | QPSK       | 1       | 1         | 25.77                                          | 25.69                    | 25.78                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 631000                                         | 633332                   | 635666                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3465                                           | 3499.98                  | 3534.98                |                              |          |  |
| 30                                                                      | QPSK       | 1       | 1         | 25.83                                          | 25.83                    | 25.99                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 630666                                         | 633332                   | 636000                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3460.02                                        | 3499.98                  | 3560                   |                              |          |  |
| 20                                                                      | QPSK       | 1       | 1         | 25.74                                          | 25.70                    | 25.76                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 630332                                         | 633332                   | 636332                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3455.95                                        | 3499.98                  | 3564.49                |                              |          |  |
| 15                                                                      | QPSK       | 1       | 1         | 25.72                                          | 25.82                    | 25.70                  | 27.0 0.0                     |          |  |
| Channel                                                                 |            |         |           | 630000                                         | 633332                   | 636666                 | Tune-up limit (dBm) MPR (dB) |          |  |
| Frequency (MHz)                                                         |            |         |           | 3450.01                                        | 3499.98                  | 3564.98                |                              |          |  |
| 10                                                                      | QPSK       | 1       | 1         | 25.83                                          | 25.78                    | 25.72                  | 27.0 0.0                     |          |  |



| Part270_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel                |            |         |           | 650000                |                          |                        |                     |          |  |  |  |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |  |  |  |
| 100                    | Pi2 BPSK   | 1       | 1         |                       | 26.24                    |                        | 27.0                | 0.0      |  |  |  |
| 100                    | Pi2 BPSK   | 1       | 137       |                       | 26.22                    |                        |                     |          |  |  |  |
| 100                    | Pi2 BPSK   | 1       | 271       |                       | 26.20                    |                        |                     |          |  |  |  |
| 100                    | Pi2 BPSK   | 135     | 0         |                       | 26.29                    |                        |                     |          |  |  |  |
| 100                    | Pi2 BPSK   | 135     | 69        |                       | 26.23                    |                        | 27.0                |          |  |  |  |
| 100                    | Pi2 BPSK   | 135     | 138       |                       | 26.31                    |                        |                     |          |  |  |  |
| 100                    | Pi2 BPSK   | 270     | 0         |                       | 26.23                    |                        | 27.0                |          |  |  |  |
| 100                    | QPSK       | 1       | 1         |                       | 26.32                    |                        |                     |          |  |  |  |
| 100                    | QPSK       | 1       | 137       |                       | 26.28                    |                        | 27.0                |          |  |  |  |
| 100                    | QPSK       | 1       | 271       |                       | 26.31                    |                        |                     |          |  |  |  |
| 100                    | QPSK       | 135     | 0         |                       | 26.21                    |                        | 27.0                | 0.0      |  |  |  |
| 100                    | QPSK       | 135     | 69        |                       | 26.29                    |                        |                     |          |  |  |  |
| 100                    | QPSK       | 135     | 138       |                       | 26.22                    |                        |                     |          |  |  |  |
| 100                    | QPSK       | 270     | 0         |                       | 26.22                    |                        |                     |          |  |  |  |
| 100                    | 16QAM      | 1       | 1         |                       | 26.23                    |                        | 27.0                |          |  |  |  |
| 100                    | 64QAM      | 1       | 1         |                       | 24.89                    |                        |                     |          |  |  |  |
| 100                    | 256QAM     | 1       | 1         |                       | 22.92                    |                        | 23.5                | 3.5      |  |  |  |
| Channel                |            |         |           | 649968                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3743.02               | 3750                     | 3754.98                |                     |          |  |  |  |
| 90                     | QPSK       | 1       | 1         |                       | 26.29                    | 26.24                  | 26.18               | 27.0     |  |  |  |
| Channel                |            |         |           | 646334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |  |  |
| 80                     | QPSK       | 1       | 1         |                       | 26.30                    | 26.17                  | 26.24               | 27.0     |  |  |  |
| Channel                |            |         |           | 646000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |  |  |
| 70                     | QPSK       | 1       | 1         |                       | 26.26                    | 26.18                  | 26.25               | 27.0     |  |  |  |
| Channel                |            |         |           | 644666                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3750                     | 3760.98                |                     |          |  |  |  |
| 60                     | QPSK       | 1       | 1         |                       | 26.18                    | 26.31                  | 26.27               | 27.0     |  |  |  |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |  |  |
| 50                     | QPSK       | 1       | 1         |                       | 26.17                    | 26.20                  | 26.21               | 27.0     |  |  |  |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |  |  |
| 40                     | QPSK       | 1       | 1         |                       | 26.23                    | 26.22                  | 26.26               | 27.0     |  |  |  |
| Channel                |            |         |           | 647000                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |  |  |
| 30                     | QPSK       | 1       | 1         |                       | 26.17                    | 26.27                  | 26.31               | 27.0     |  |  |  |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |  |  |  |
| 20                     | QPSK       | 1       | 1         |                       | 26.26                    | 26.24                  | 26.29               | 27.0     |  |  |  |
| Channel                |            |         |           | 647166                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |  |  |
| 15                     | QPSK       | 1       | 1         |                       | 26.21                    | 26.37                  | 26.19               | 27.0     |  |  |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |  |  |
| 10                     | QPSK       | 1       | 1         |                       | 26.31                    | 26.31                  | 26.24               | 27.0     |  |  |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel            |            |         |           | 633332                |                          |                        |                     |          |  |  |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 1       | 1         |                       | 21.99                    |                        | 23.0                | 0.0      |  |  |  |
| 100                | Pi2 BPSK   | 1       | 137       |                       | 22.01                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 1       | 271       |                       | 21.89                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 0         |                       | 21.99                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 69        |                       | 22.01                    |                        | 23.0                |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 138       |                       | 21.92                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 270     | 0         |                       | 22.02                    |                        | 23.0                |          |  |  |  |
| 100                | QPSK       | 1       | 1         |                       | 22.13                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 1       | 137       |                       | 21.93                    |                        | 23.0                |          |  |  |  |
| 100                | QPSK       | 1       | 271       |                       | 21.97                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 135     | 0         |                       | 21.96                    |                        | 23.0                | 0.0      |  |  |  |
| 100                | QPSK       | 135     | 69        |                       | 22.08                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 135     | 138       |                       | 22.03                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 270     | 0         |                       | 21.97                    |                        |                     |          |  |  |  |
| 100                | 16QAM      | 1       | 1         |                       | 21.87                    |                        | 23.0                |          |  |  |  |
| 100                | 64QAM      | 1       | 1         |                       | 21.96                    |                        |                     |          |  |  |  |
| 100                | 256QAM     | 1       | 1         |                       | 21.97                    |                        | 23.0                | 0.0      |  |  |  |
| Channel            |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |  |  |  |
| 90                 | QPSK       | 1       | 1         |                       | 21.89                    | 21.95                  | 21.89               | 23.0     |  |  |  |
| Channel            |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |  |  |
| 80                 | QPSK       | 1       | 1         |                       | 21.13                    | 21.14                  | 21.92               | 23.0     |  |  |  |
| Channel            |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |  |  |
| 70                 | QPSK       | 1       | 1         |                       | 21.89                    | 21.96                  | 22.00               | 23.0     |  |  |  |
| Channel            |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |  |  |
| 60                 | QPSK       | 1       | 1         |                       | 21.98                    | 21.98                  | 21.88               | 23.0     |  |  |  |
| Channel            |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |  |  |
| 50                 | QPSK       | 1       | 1         |                       | 21.13                    | 22.00                  | 21.98               | 23.0     |  |  |  |
| Channel            |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |  |  |
| 40                 | QPSK       | 1       | 1         |                       | 21.88                    | 21.95                  | 22.02               | 23.0     |  |  |  |
| Channel            |            |         |           | 631000                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |  |  |  |
| 30                 | QPSK       | 1       | 1         |                       | 21.88                    | 21.92                  | 21.98               | 23.0     |  |  |  |
| Channel            |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |  |  |
| 20                 | QPSK       | 1       | 1         |                       | 21.91                    | 22.02                  | 21.98               | 23.0     |  |  |  |
| Channel            |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |  |  |  |
| 15                 | QPSK       | 1       | 1         |                       | 21.85                    | 21.96                  | 21.96               | 23.0     |  |  |  |
| Channel            |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |  |  |
| 10                 | QPSK       | 1       | 1         |                       | 21.85                    | 21.94                  | 21.93               | 23.0     |  |  |  |

| Part270_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel            |            |         |           | 650000                |                          |                        |                     |          |  |  |  |
| Frequency (MHz)    |            |         |           | 3750                  |                          |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 1       | 1         |                       | 21.91                    |                        | 23.0                | 0.0      |  |  |  |
| 100                | Pi2 BPSK   | 1       | 137       |                       | 21.93                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 1       | 271       |                       | 21.96                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 0         |                       | 21.92                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 69        |                       | 21.96                    |                        | 23.0                |          |  |  |  |
| 100                | Pi2 BPSK   | 135     | 138       |                       | 21.93                    |                        |                     |          |  |  |  |
| 100                | Pi2 BPSK   | 270     | 0         |                       | 21.94                    |                        | 23.0                |          |  |  |  |
| 100                | QPSK       | 1       | 1         |                       | 22.11                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 1       | 137       |                       | 21.97                    |                        | 23.0                |          |  |  |  |
| 100                | QPSK       | 1       | 271       |                       | 21.96                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 135     | 0         |                       | 21.99                    |                        | 23.0                | 0.0      |  |  |  |
| 100                | QPSK       | 135     | 69        |                       | 22.05                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 135     | 138       |                       | 21.95                    |                        |                     |          |  |  |  |
| 100                | QPSK       | 270     | 0         |                       | 21.98                    |                        |                     |          |  |  |  |
| 100                | 16QAM      | 1       | 1         |                       | 21.86                    |                        | 23.0                |          |  |  |  |
| 100                | 64QAM      | 1       | 1         |                       | 21.98                    |                        |                     |          |  |  |  |
| 100                | 256QAM     | 1       | 1         |                       | 22.00                    |                        | 23.0                | 0.0      |  |  |  |
| Channel            |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |  |  |
| 90                 | QPSK       | 1       | 1         |                       | 21.86                    | 21.95                  | 21.86               | 23.0     |  |  |  |
| Channel            |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3741.01               | 3750                     | 3759.99                |                     |          |  |  |  |
| 80                 | QPSK       | 1       | 1         |                       | 21.85                    | 21.99                  | 22.01               | 23.0     |  |  |  |
| Channel            |            |         |           | 649600                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |  |  |
| 70                 | QPSK       | 1       | 1         |                       | 21.90                    | 22.03                  | 21.96               | 23.0     |  |  |  |
| Channel            |            |         |           | 649600                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |  |  |  |
| 60                 | QPSK       | 1       | 1         |                       | 21.91                    | 21.99                  | 21.97               | 23.0     |  |  |  |
| Channel            |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |  |  |
| 50                 | QPSK       | 1       | 1         |                       | 21.94                    | 21.93                  | 21.94               | 23.0     |  |  |  |
| Channel            |            |         |           | 648600                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |  |  |
| 40                 | QPSK       | 1       | 1         |                       | 21.94                    | 22.01                  | 21.95               | 23.0     |  |  |  |
| Channel            |            |         |           | 647600                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |  |  |
| 30                 | QPSK       | 1       | 1         |                       | 21.94                    | 21.99                  | 21.93               | 23.0     |  |  |  |
| Channel            |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |  |  |  |
| 20                 | QPSK       | 1       | 1         |                       | 21.95                    | 21.92                  | 22.02               | 23.0     |  |  |  |
| Channel            |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |  |  |
| 15                 | QPSK       | 1       | 1         |                       | 21.97                    | 22.03                  | 21.99               | 23.0     |  |  |  |
| Channel            |            |         |           | 646900                | 650000                   | 653100                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |  |  |
| 10                 | QPSK       | 1       | 1         |                       | 21.93                    | 22.04                  | 21.89               | 23.0     |  |  |  |



| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | P12 BPSK   | 1       | 1         |                       | 23.83                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 1       | 137       |                       | 24.01                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 1       | 271       |                       | 23.98                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 0         |                       | 23.88                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 135     | 69        |                       | 23.92                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 138       |                       | 23.87                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 270     | 0         |                       | 23.92                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 24.15                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 24.04                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 24.13                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 23.88                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        |                       | 23.96                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       |                       | 23.83                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         |                       | 23.91                    |                        |                     |          |  |
| 100                     | 64QAM      | 1       | 1         |                       | 23.98                    |                        | 25.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 23.89                    |                        |                     |          |  |
| 100                     | 256QAM     | 1       | 1         |                       | 22.96                    |                        | 23.5                | 1.5      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         |                       | 23.74                    | 23.80                  | 23.85               | 25.0     |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         |                       | 23.72                    | 23.74                  | 23.76               | 25.0     |  |
| Channel                 |            |         |           | 632204                | 633332                   | 634466                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         |                       | 23.74                    | 23.83                  | 23.87               | 25.0     |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         |                       | 23.82                    | 23.83                  | 23.74               | 25.0     |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         |                       | 23.81                    | 23.77                  | 23.76               | 25.0     |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         |                       | 23.77                    | 23.82                  | 23.81               | 25.0     |  |
| Channel                 |            |         |           | 630996                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         |                       | 23.68                    | 23.72                  | 23.87               | 25.0     |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         |                       | 23.75                    | 23.83                  | 23.74               | 25.0     |  |
| Channel                 |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         |                       | 23.74                    | 23.73                  | 23.74               | 25.0     |  |
| Channel                 |            |         |           | 630004                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | QPSK       | 1       | 1         |                       | 23.80                    | 23.74                  | 23.86               | 25.0     |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                     | P12 BPSK   | 1       | 1         |                       | 23.93                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 1       | 137       |                       | 24.10                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 1       | 271       |                       | 24.07                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 0         |                       | 23.95                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 135     | 69        |                       | 23.94                    |                        | 25.0                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 138       |                       | 23.96                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 270     | 0         |                       | 23.97                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 24.16                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 24.12                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 24.15                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 23.93                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        |                       | 23.96                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       |                       | 23.95                    |                        | 25.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         |                       | 23.94                    |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         |                       | 24.01                    |                        | 25.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 24.02                    |                        |                     |          |  |
| 100                     | 256QAM     | 1       | 1         |                       | 22.69                    |                        | 23.5                | 1.5      |  |
| Channel                 |            |         |           | 648668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         |                       | 23.80                    | 23.79                  | 23.85               | 25.0     |  |
| Channel                 |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.98                |                     |          |  |
| 80                      | QPSK       | 1       | 1         |                       | 23.79                    | 23.69                  | 23.85               | 25.0     |  |
| Channel                 |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                      | QPSK       | 1       | 1         |                       | 23.80                    | 23.74                  | 23.87               | 25.0     |  |
| Channel                 |            |         |           | 647668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         |                       | 23.68                    | 23.78                  | 23.76               | 25.0     |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                      | QPSK       | 1       | 1         |                       | 23.78                    | 23.71                  | 23.81               | 25.0     |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                      | QPSK       | 1       | 1         |                       | 23.72                    | 23.83                  | 23.87               | 25.0     |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         |                       | 23.70                    | 23.73                  | 23.85               | 25.0     |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3750                     | 3789.98                |                     |          |  |
| 20                      | QPSK       | 1       | 1         |                       | 23.82                    | 23.78                  | 23.86               | 25.0     |  |
| Channel                 |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         |                       | 23.73                    | 23.69                  | 23.86               | 25.0     |  |
| Channel                 |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                      | QPSK       | 1       | 1         |                       | 23.80                    | 23.79                  | 23.77               | 25.0     |  |

| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | P12 BPSK   | 1       | 1         |                       | 22.15                    |                        | 23.0                | 0.0      |  |
| 100               | P12 BPSK   | 1       | 137       |                       | 22.08                    |                        |                     |          |  |
| 100               | P12 BPSK   | 1       | 271       |                       | 22.10                    |                        | 23.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 0         |                       | 22.08                    |                        |                     |          |  |
| 100               | P12 BPSK   | 135     | 69        |                       | 22.24                    |                        | 23.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 138       |                       | 22.07                    |                        |                     |          |  |
| 100               | P12 BPSK   | 270     | 0         |                       | 22.25                    |                        | 23.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 22.33                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 22.17                    |                        | 23.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 22.14                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.19                    |                        | 23.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 22.31                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.28                    |                        | 23.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 22.20                    |                        |                     |          |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.16                    |                        | 22.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 21.75                    |                        | 22.5                | 0.5      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.63                    |                        | 22.5                | 2.5      |  |
| Channel           |            |         |           | 633662                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3500.98               |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 633661                | 633662                   | 633663                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.24                 | 22.18                    | 22.20                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 633266                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 634000                |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.24                 | 22.30                    | 22.14                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 630334                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 634332                |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.21                 | 22.22                    | 22.14                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 632000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 634666                |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.17                 | 22.26                    | 22.16                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 3475.02               |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.25                 | 22.22                    | 22.21                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 631332                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 635332                |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.19                 | 22.31                    | 22.17                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 631000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 635666                |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.25                 | 22.18                    | 22.25                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 630666                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 636000                |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.02                 | 22.30                    | 22.15                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 3450.02               |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.19                 | 22.31                    | 22.42                  | 23.0                | 0.0      |  |
| Channel           |            |         |           | 3455.01               |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 22.19                 | 22.30                    | 22.15                  | 23.0                | 0.0      |  |

| Part27Q_n78_Ant 8                                                                                                              |            |         |           |                      |                         |                       |                     |          |     |
|--------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]                                                                                                                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                                                                                                                        |            |         |           | 650000               |                         | 3750                  |                     |          |     |
| Frequency (MHz)                                                                                                                |            |         |           |                      |                         |                       |                     |          |     |
| 100                                                                                                                            | Pi2 BPSK   | 1       | 1         | 22.11                | 22.11                   |                       | 23.0                | 0.0      |     |
| 100                                                                                                                            | Pi2 BPSK   | 1       | 137       | 22.11                | 22.11                   |                       |                     |          |     |
| 100                                                                                                                            | Pi2 BPSK   | 1       | 271       | 22.12                | 22.12                   |                       |                     |          |     |
| 100                                                                                                                            | Pi2 BPSK   | 135     | 0         | 22.12                | 22.12                   |                       |                     |          |     |
| 100                                                                                                                            | Pi2 BPSK   | 135     | 69        | 22.16                | 22.16                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | Pi2 BPSK   | 135     | 138       | 22.21                | 22.21                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | Pi2 BPSK   | 270     | 0         | 22.12                | 22.12                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | QPSK       | 1       | 1         | 22.33                | 22.33                   |                       | 23.0                | 0.0      |     |
| 100                                                                                                                            | QPSK       | 1       | 137       | 22.16                | 22.16                   |                       |                     |          |     |
| 100                                                                                                                            | QPSK       | 1       | 271       | 22.16                | 22.16                   |                       |                     |          |     |
| 100                                                                                                                            | QPSK       | 135     | 0         | 22.16                | 22.16                   |                       |                     |          |     |
| 100                                                                                                                            | QPSK       | 135     | 69        | 22.23                | 22.23                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | QPSK       | 135     | 138       | 22.19                | 22.19                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | QPSK       | 270     | 0         | 22.20                | 22.20                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | 16QAM      | 1       | 1         | 22.21                | 22.21                   |                       | 23.0                |          | 0.0 |
| 100                                                                                                                            | 64QAM      | 1       | 1         | 21.88                | 21.88                   |                       | 22.5                |          | 0.5 |
| 100                                                                                                                            | 256QAM     | 1       | 1         | 19.70                | 19.70                   |                       | 20.5                |          | 2.5 |
| Channel                                                                                                                        |            |         |           | 649968               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3745.02</th> <th>3750</th> <th>3754.98</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3745.02              | 3750                    | 3754.98               | 23.0                | 0.0      |     |
| 90                                                                                                                             | QPSK       | 1       | 1         | 22.25                | 22.20                   | 22.24                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 648334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3740.01</th> <th>3750</th> <th>3759.99</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3740.01              | 3750                    | 3759.99               | 23.0                | 0.0      |     |
| 80                                                                                                                             | QPSK       | 1       | 1         | 22.23                | 22.21                   | 22.16                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 646000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3735</th> <th>3750</th> <th>3765</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td>       |            |         |           | 3735                 | 3750                    | 3765                  | 23.0                | 0.0      |     |
| 70                                                                                                                             | QPSK       | 1       | 1         | 22.24                | 22.21                   | 22.24                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 644666               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3730.02</th> <th>3750</th> <th>3760.98</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3730.02              | 3750                    | 3760.98               | 23.0                | 0.0      |     |
| 60                                                                                                                             | QPSK       | 1       | 1         | 22.21                | 22.30                   | 22.20                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3725.01</th> <th>3750</th> <th>3774.99</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3725.01              | 3750                    | 3774.99               | 23.0                | 0.0      |     |
| 50                                                                                                                             | QPSK       | 1       | 1         | 22.23                | 22.31                   | 22.18                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3720</th> <th>3750</th> <th>3780</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td>       |            |         |           | 3720                 | 3750                    | 3780                  | 23.0                | 0.0      |     |
| 40                                                                                                                             | QPSK       | 1       | 1         | 22.14                | 22.22                   | 22.20                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 647000               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3715.02</th> <th>3750</th> <th>3784.98</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3715.02              | 3750                    | 3784.98               | 23.0                | 0.0      |     |
| 30                                                                                                                             | QPSK       | 1       | 1         | 22.15                | 22.23                   | 22.18                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3710.01</th> <th>3750</th> <th>3789.99</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3710.01              | 3750                    | 3789.99               | 23.0                | 0.0      |     |
| 20                                                                                                                             | QPSK       | 1       | 1         | 22.23                | 22.28                   | 22.20                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 647166               | 650000                  | 652832                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3707.52</th> <th>3750</th> <th>3792.48</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td> |            |         |           | 3707.52              | 3750                    | 3792.48               | 23.0                | 0.0      |     |
| 15                                                                                                                             | QPSK       | 1       | 1         | 22.22                | 22.32                   | 22.15                 |                     |          |     |
| Channel                                                                                                                        |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) <th>3705</th> <th>3750</th> <th>3795</th> <td rowspan="2">23.0</td> <td colspan="2" rowspan="2">0.0</td>       |            |         |           | 3705                 | 3750                    | 3795                  | 23.0                | 0.0      |     |
| 10                                                                                                                             | QPSK       | 1       | 1         | 22.23                | 22.27                   | 22.26                 |                     |          |     |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 633000                |                          | 633332                 |                     |          |     |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |     |
| 100                    | Pi2 BPSK   | 1       | 1         | 24.28                 | 24.28                    |                        | 25.0                | 0.0      |     |
| 100                    | Pi2 BPSK   | 1       | 137       | 24.23                 | 24.23                    |                        |                     |          |     |
| 100                    | Pi2 BPSK   | 1       | 271       | 24.28                 | 24.28                    |                        |                     |          |     |
| 100                    | Pi2 BPSK   | 135     | 0         | 23.68                 | 23.68                    |                        |                     |          |     |
| 100                    | Pi2 BPSK   | 135     | 69        | 23.29                 | 23.29                    |                        | 24.5                |          | 0.5 |
| 100                    | Pi2 BPSK   | 135     | 138       | 23.87                 | 23.87                    |                        | 25.0                |          | 0.0 |
| 100                    | Pi2 BPSK   | 270     | 0         | 23.76                 | 23.76                    |                        | 24.5                |          | 0.5 |
| 100                    | QPSK       | 1       | 1         | 24.32                 | 24.32                    |                        | 25.0                | 0.0      |     |
| 100                    | QPSK       | 1       | 137       | 24.31                 | 24.31                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 271       | 24.22                 | 24.22                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         | 23.24                 | 23.24                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 69        | 24.28                 | 24.28                    |                        | 25.0                |          | 0.0 |
| 100                    | QPSK       | 135     | 138       | 23.36                 | 23.36                    |                        | 24.0                |          | 1.0 |
| 100                    | QPSK       | 270     | 0         | 23.17                 | 23.17                    |                        | 24.0                |          | 1.0 |
| 100                    | 16QAM      | 1       | 1         | 23.26                 | 23.26                    |                        | 24.0                |          | 1.0 |
| 100                    | 64QAM      | 1       | 1         | 21.89                 | 21.89                    |                        | 22.5                |          | 2.5 |
| 100                    | 256QAM     | 1       | 1         | 19.76                 | 19.76                    |                        | 20.5                |          | 4.5 |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                | 25.0                | 0.0      |     |
| 90                     | QPSK       | 1       | 1         | 23.18                 | 23.29                    | 23.05                  |                     |          |     |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3503                   | 25.0                | 0.0      |     |
| 80                     | QPSK       | 1       | 1         | 23.14                 | 23.28                    | 23.08                  |                     |          |     |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 25.0                | 0.0      |     |
| 70                     | QPSK       | 1       | 1         | 23.09                 | 23.40                    | 23.18                  |                     | 25.0     |     |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                | 25.0                | 0.0      |     |
| 60                     | QPSK       | 1       | 1         | 23.06                 | 23.40                    | 23.17                  |                     | 25.0     |     |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | 25.0                | 0.0      |     |
| 50                     | QPSK       | 1       | 1         | 23.04                 | 23.32                    | 23.07                  |                     | 25.0     |     |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 25.0                | 0.0      |     |
| 40                     | QPSK       | 1       | 1         | 23.11                 | 23.30                    | 23.19                  |                     | 25.0     |     |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.98                | 25.0                | 0.0      |     |
| 30                     | QPSK       | 1       | 1         | 23.11                 | 23.39                    | 23.07                  |                     | 25.0     |     |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | 25.0                | 0.0      |     |
| 20                     | QPSK       | 1       | 1         | 23.12                 | 23.41                    | 23.11                  |                     | 25.0     |     |
| Channel                |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.48                | 25.0                | 0.0      |     |
| 15                     | QPSK       | 1       | 1         | 23.14                 | 23.29                    | 23.09                  |                     | 25.0     |     |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 25.0                | 0.0      |     |
| 10                     | QPSK       | 1       | 1         | 23.10                 | 23.28                    | 23.05                  |                     | 25.0     |     |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                                                                         |                         |                                      |                     |          |          |
|------------------------|------------|---------|-----------|-------------------------------------------------------------------------|-------------------------|--------------------------------------|---------------------|----------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq                                                    | Power Middle Ch. / Freq | Power High Ch. / Freq                | Tune-up limit (dBm) | MPR (dB) |          |
| Channel                |            |         |           | 650000                                                                  |                         |                                      |                     |          |          |
| Frequency (MHz)        |            |         |           | 3750                                                                    |                         |                                      |                     |          |          |
| 100                    | Pi2 BPSK   | 1       | 1         | 24.24                                                                   | 24.24                   |                                      | 25.0                | 0.0      |          |
| 100                    | Pi2 BPSK   | 1       | 137       | 24.32                                                                   | 24.32                   |                                      |                     |          |          |
| 100                    | Pi2 BPSK   | 1       | 271       | 24.29                                                                   | 24.29                   |                                      |                     |          |          |
| 100                    | Pi2 BPSK   | 135     | 0         | 23.63                                                                   | 23.63                   |                                      |                     |          |          |
| 100                    | Pi2 BPSK   | 135     | 69        | 24.30                                                                   | 24.30                   |                                      | 24.5                |          | 0.5      |
| 100                    | Pi2 BPSK   | 135     | 138       | 23.78                                                                   | 23.78                   |                                      | 25.0                |          | 0.0      |
| 100                    | Pi2 BPSK   | 270     | 0         | 23.74                                                                   | 23.74                   |                                      | 24.5                |          | 0.5      |
| 100                    | QPSK       | 1       | 1         | 24.34                                                                   | 24.34                   |                                      | 25.0                | 0.0      |          |
| 100                    | QPSK       | 1       | 137       | 24.31                                                                   | 24.31                   |                                      |                     |          |          |
| 100                    | QPSK       | 1       | 271       | 24.17                                                                   | 24.17                   |                                      |                     |          |          |
| 100                    | QPSK       | 135     | 0         | 23.36                                                                   | 23.36                   |                                      |                     |          |          |
| 100                    | QPSK       | 135     | 69        | 24.30                                                                   | 24.30                   |                                      | 25.0                |          | 0.0      |
| 100                    | QPSK       | 135     | 138       | 23.35                                                                   | 23.35                   |                                      |                     |          |          |
| 100                    | QPSK       | 270     | 0         | 23.29                                                                   | 23.29                   |                                      | 24.0                |          | 1.0      |
| 100                    | 16QAM      | 1       | 1         | 23.98                                                                   | 23.98                   |                                      | 24.0                |          | 1.0      |
| 100                    | 64QAM      | 1       | 1         | 21.76                                                                   | 21.76                   |                                      | 22.5                |          | 2.5      |
| 100                    | 256QAM     | 1       | 1         | 19.73                                                                   | 19.73                   |                                      | 22.5                |          | 4.5      |
| Channel                |            |         |           | 650000                                                                  |                         | 650332                               | 15.0PR              |          |          |
| Frequency (MHz)        |            |         |           | 3745.02                                                                 |                         | 3754.98                              | Tune-up limit (dBm) |          |          |
| 90                     | QPSK       | 1       | 1         | 23.06                                                                   | 23.27                   | 23.07                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 649334                                                                  |                         | 650066                               |                     | MPR (dB) |          |
| Frequency (MHz)        |            |         |           | 3742.01                                                                 |                         | 3757.99 <td>Tune-up limit (dBm)</td> | Tune-up limit (dBm) |          |          |
| 80                     | QPSK       | 1       | 1         | 23.09                                                                   | 23.36                   | 23.18                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 648600                                                                  |                         | 650800                               |                     | MPR (dB) |          |
| Frequency (MHz)        |            |         |           | 3735 <th>3760<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th>    |                         | 3760 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 70                     | QPSK       | 1       | 1         | 23.04                                                                   | 23.37                   | 23.11                                | 23.0                | 0.0      |          |
| Channel                |            |         |           | 648600                                                                  |                         | 650000                               | 651332              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3730 <th>3750<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th>    |                         | 3750 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 60                     | QPSK       | 1       | 1         | 23.04                                                                   | 23.37                   | 23.12                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 648334                                                                  |                         | 650332                               |                     | MPR (dB) |          |
| Frequency (MHz)        |            |         |           | 3725.01 <th>3760<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th> |                         | 3760 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 50                     | QPSK       | 1       | 1         | 23.05                                                                   | 23.35                   | 23.06                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 648000                                                                  |                         | 650000                               | 652000              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3720 <th>3750<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th>    |                         | 3750 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 40                     | QPSK       | 1       | 1         | 23.14                                                                   | 23.34                   | 23.12                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 647668                                                                  |                         | 650000                               | 652332              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3719.02 <th>3760<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th> |                         | 3760 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 30                     | QPSK       | 1       | 1         | 23.15                                                                   | 23.35                   | 23.12                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 647334                                                                  |                         | 650000                               | 652668              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3717.01 <th>3750<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th> |                         | 3750 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 20                     | QPSK       | 1       | 1         | 23.03                                                                   | 23.35                   | 23.08                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 647000                                                                  |                         | 650000                               | 652332              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3707.52 <th>3760<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th> |                         | 3760 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 15                     | QPSK       | 1       | 1         | 23.14                                                                   | 23.37                   | 23.16                                | 25.0                | 0.0      |          |
| Channel                |            |         |           | 646700                                                                  |                         | 650000                               | 652668              |          | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3705 <th>3750<td>Tune-up limit (dBm)</td></th> <th colspan="2"></th>    |                         | 3750 <td>Tune-up limit (dBm)</td>    | Tune-up limit (dBm) |          |          |
| 10                     | QPSK       | 1       | 1         | 23.14                                                                   | 23.31                   | 23.05                                | 25.0                | 0.0      |          |

| Band 2_Ant 0    |            |         |           |                   |                   |                   |                     |          |    |  |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|---------------------|----------|----|--|
| RF BW (MHz)     | Modulation | RB Size | RB Offset | Power Level (dBm) | Power Level (dBm) | Power Level (dBm) | Time-up limit (min) | MPE (dB) |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 30              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 30              | QPSK       | 1       | 49        | 23.05             | 23.05             | 22.85             | 24                  | 0        |    |  |
| 30              | QPSK       | 1       | 99        | 22.81             | 22.80             | 22.84             |                     |          |    |  |
| 30              | QPSK       | 1       | 149       | 23.05             | 23.05             | 22.85             |                     |          |    |  |
| 30              | QPSK       | 50      | 24        | 22.77             | 22.88             | 22.78             |                     |          |    |  |
| 30              | QPSK       | 50      | 50        | 22.80             | 22.89             | 22.81             |                     |          |    |  |
| 30              | QPSK       | 50      | 75        | 22.84             | 22.83             | 22.81             |                     |          |    |  |
| 30              | 16QAM      | 1       | 0         | 22.82             | 22.91             | 22.85             |                     |          |    |  |
| 30              | 16QAM      | 1       | 49        | 22.88             | 22.93             | 22.86             | 24                  | 0        |    |  |
| 30              | 16QAM      | 1       | 99        | 22.91             | 22.92             | 22.89             |                     |          |    |  |
| 30              | 16QAM      | 50      | 0         | 22.92             | 22.96             | 22.85             |                     |          |    |  |
| 30              | 16QAM      | 50      | 24        | 22.79             | 22.89             | 22.86             | 24                  | 0        |    |  |
| 30              | 16QAM      | 50      | 49        | 22.83             | 22.92             | 22.85             |                     |          |    |  |
| 30              | 16QAM      | 100     | 0         | 22.82             | 22.92             | 22.85             |                     |          |    |  |
| 30              | 64QAM      | 1       | 0         | 22.82             | 22.90             | 22.79             |                     |          |    |  |
| 30              | 64QAM      | 1       | 49        | 22.88             | 22.93             | 22.78             |                     |          |    |  |
| 30              | 64QAM      | 1       | 99        | 22.84             | 22.92             | 22.84             |                     |          |    |  |
| 30              | 64QAM      | 50      | 0         | 21.71             | 21.74             | 21.64             |                     |          |    |  |
| 30              | 64QAM      | 50      | 24        | 21.68             | 21.73             | 21.67             |                     |          |    |  |
| 30              | 64QAM      | 50      | 50        | 21.64             | 21.80             | 21.76             | 23                  | 1        |    |  |
| 30              | 64QAM      | 100     | 0         | 21.78             | 21.85             | 21.79             |                     |          |    |  |
| 30              | 256QAM     | 1       | 0         | 19.49             | 19.54             | 19.51             | 21                  | 3        |    |  |
| 30              | 256QAM     | 1       | 49        | 19.54             | 19.56             | 19.48             |                     |          |    |  |
| 30              | 256QAM     | 50      | 0         | 19.52             | 19.58             | 19.54             |                     |          |    |  |
| 30              | 256QAM     | 50      | 24        | 19.52             | 19.58             | 19.53             | 21                  | 3        |    |  |
| 30              | 256QAM     | 50      | 50        | 19.51             | 19.58             | 19.47             |                     |          |    |  |
| 30              | 256QAM     | 100     | 0         | 19.54             | 19.57             | 19.49             |                     |          |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 30              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 30              | QPSK       | 1       | 37        | 22.83             | 22.97             | 22.85             |                     |          |    |  |
| 30              | QPSK       | 1       | 74        | 22.77             | 22.88             | 22.80             | 24                  | 0        |    |  |
| 30              | QPSK       | 1       | 111       | 22.82             | 22.88             | 22.80             |                     |          |    |  |
| 30              | QPSK       | 36      | 20        | 22.66             | 22.85             | 22.68             |                     |          |    |  |
| 30              | QPSK       | 36      | 56        | 22.71             | 22.81             | 22.78             | 24                  | 0        |    |  |
| 30              | QPSK       | 36      | 85        | 22.74             | 22.85             | 22.67             |                     |          |    |  |
| 30              | 16QAM      | 1       | 0         | 22.72             | 22.80             | 22.81             |                     |          |    |  |
| 30              | 16QAM      | 1       | 37        | 22.77             | 22.84             | 22.77             | 24                  | 0        |    |  |
| 30              | 16QAM      | 1       | 74        | 22.78             | 22.83             | 22.79             |                     |          |    |  |
| 30              | 16QAM      | 36      | 0         | 22.87             | 22.91             | 22.78             |                     |          |    |  |
| 30              | 16QAM      | 36      | 20        | 22.77             | 22.83             | 22.81             | 24                  | 0        |    |  |
| 30              | 16QAM      | 36      | 56        | 22.82             | 22.88             | 22.78             |                     |          |    |  |
| 30              | 16QAM      | 75      | 0         | 22.78             | 22.83             | 22.78             |                     |          |    |  |
| 30              | 64QAM      | 1       | 0         | 22.71             | 22.87             | 22.70             |                     |          |    |  |
| 30              | 64QAM      | 1       | 37        | 22.76             | 22.81             | 22.73             | 24                  | 0        |    |  |
| 30              | 64QAM      | 1       | 74        | 22.75             | 22.80             | 22.76             |                     |          |    |  |
| 30              | 64QAM      | 36      | 0         | 21.68             | 21.69             | 21.69             |                     |          |    |  |
| 30              | 64QAM      | 36      | 20        | 21.68             | 21.69             | 21.68             | 23                  | 1        |    |  |
| 30              | 64QAM      | 75      | 0         | 21.64             | 21.73             | 21.74             |                     |          |    |  |
| 30              | 256QAM     | 1       | 0         | 19.47             | 19.48             | 19.44             |                     |          |    |  |
| 30              | 256QAM     | 1       | 37        | 19.47             | 19.48             | 19.44             | 21                  | 3        |    |  |
| 30              | 256QAM     | 50      | 0         | 19.48             | 19.51             | 19.46             |                     |          |    |  |
| 30              | 256QAM     | 50      | 24        | 19.45             | 19.48             | 19.44             | 21                  | 3        |    |  |
| 30              | 256QAM     | 50      | 50        | 19.48             | 19.53             | 19.38             |                     |          |    |  |
| 30              | 256QAM     | 100     | 0         | 19.47             | 19.48             | 19.44             |                     |          |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 30              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 30              | QPSK       | 1       | 25        | 22.87             | 22.97             | 22.85             |                     |          |    |  |
| 30              | QPSK       | 1       | 49        | 22.78             | 22.85             | 22.80             | 24                  | 0        |    |  |
| 30              | QPSK       | 1       | 74        | 22.82             | 22.88             | 22.73             |                     |          |    |  |
| 30              | QPSK       | 25      | 12        | 22.69             | 22.84             | 22.76             |                     |          |    |  |
| 30              | QPSK       | 25      | 37        | 22.69             | 22.81             | 22.78             | 24                  | 0        |    |  |
| 30              | QPSK       | 25      | 62        | 22.74             | 22.86             | 22.74             |                     |          |    |  |
| 30              | 16QAM      | 1       | 0         | 22.80             | 22.86             | 22.78             |                     |          |    |  |
| 30              | 16QAM      | 1       | 25        | 22.77             | 22.91             | 22.80             | 24                  | 0        |    |  |
| 30              | 16QAM      | 1       | 49        | 22.81             | 22.86             | 22.81             |                     |          |    |  |
| 30              | 16QAM      | 25      | 0         | 22.83             | 22.88             | 22.81             |                     |          |    |  |
| 30              | 16QAM      | 25      | 12        | 22.74             | 22.87             | 22.82             | 24                  | 0        |    |  |
| 30              | 16QAM      | 25      | 37        | 22.82             | 22.88             | 22.82             |                     |          |    |  |
| 30              | 16QAM      | 50      | 0         | 22.83             | 22.88             | 22.82             |                     |          |    |  |
| 30              | 64QAM      | 1       | 0         | 22.78             | 22.87             | 22.76             |                     |          |    |  |
| 30              | 64QAM      | 1       | 25        | 22.83             | 22.83             | 22.68             |                     |          |    |  |
| 30              | 64QAM      | 1       | 49        | 22.83             | 22.83             | 22.62             |                     |          |    |  |
| 30              | 64QAM      | 25      | 0         | 21.67             | 21.67             | 21.66             |                     |          |    |  |
| 30              | 64QAM      | 25      | 12        | 21.65             | 21.68             | 21.62             | 23                  | 1        |    |  |
| 30              | 64QAM      | 50      | 0         | 21.72             | 21.82             | 21.69             |                     |          |    |  |
| 30              | 64QAM      | 50      | 24        | 21.68             | 21.83             | 21.67             |                     |          |    |  |
| 30              | 256QAM     | 1       | 0         | 19.41             | 19.43             | 19.45             |                     |          |    |  |
| 30              | 256QAM     | 1       | 25        | 19.41             | 19.43             | 19.45             | 21                  | 3        |    |  |
| 30              | 256QAM     | 25      | 12        | 19.52             | 19.48             | 19.39             |                     |          |    |  |
| 30              | 256QAM     | 25      | 37        | 19.48             | 19.51             | 19.45             | 21                  | 3        |    |  |
| 30              | 256QAM     | 50      | 0         | 19.50             | 19.54             | 19.43             |                     |          |    |  |
| 30              | 256QAM     | 50      | 24        | 19.41             | 19.52             | 19.42             | 21                  | 3        |    |  |
| 30              | 256QAM     | 50      | 50        | 19.45             | 19.48             | 19.40             |                     |          |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 30              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 30              | QPSK       | 1       | 12        | 22.88             | 22.95             | 22.85             |                     |          |    |  |
| 30              | QPSK       | 1       | 24        | 22.78             | 22.79             | 22.74             | 24                  | 0        |    |  |
| 30              | QPSK       | 1       | 36        | 22.82             | 22.83             | 22.79             |                     |          |    |  |
| 30              | QPSK       | 12      | 7         | 22.72             | 22.80             | 22.75             |                     |          |    |  |
| 30              | QPSK       | 12      | 13        | 22.70             | 22.79             | 22.79             | 24                  | 0        |    |  |
| 30              | QPSK       | 12      | 25        | 22.78             | 22.82             | 22.77             |                     |          |    |  |
| 30              | 16QAM      | 1       | 0         | 22.74             | 22.80             | 22.80             |                     |          |    |  |
| 30              | 16QAM      | 1       | 12        | 22.78             | 22.91             | 22.80             | 24                  | 0        |    |  |
| 30              | 16QAM      | 1       | 24        | 22.81             | 22.86             | 22.81             |                     |          |    |  |
| 30              | 16QAM      | 12      | 0         | 22.88             | 22.86             | 22.78             |                     |          |    |  |
| 30              | 16QAM      | 12      | 7         | 22.70             | 22.87             | 22.84             | 24                  | 0        |    |  |
| 30              | 16QAM      | 12      | 13        | 22.82             | 22.85             | 22.82             |                     |          |    |  |
| 30              | 16QAM      | 25      | 0         | 22.76             | 22.83             | 22.79             |                     |          |    |  |
| 30              | 64QAM      | 1       | 0         | 22.76             | 22.83             | 22.69             |                     |          |    |  |
| 30              | 64QAM      | 1       | 12        | 22.81             | 22.84             | 22.69             |                     |          |    |  |
| 30              | 64QAM      | 1       | 24        | 22.78             | 22.84             | 22.74             |                     |          |    |  |
| 30              | 64QAM      | 12      | 0         | 21.64             | 21.65             | 21.66             |                     |          |    |  |
| 30              | 64QAM      | 12      | 7         | 21.63             | 21.65             | 21.60             | 23                  | 1        |    |  |
| 30              | 64QAM      | 12      | 13        | 21.68             | 21.73             | 21.70             |                     |          |    |  |
| 30              | 64QAM      | 25      | 0         | 21.70             | 21.75             | 21.71             |                     |          |    |  |
| 30              | 256QAM     | 1       | 0         | 19.41             | 19.47             | 19.37             |                     |          |    |  |
| 30              | 256QAM     | 1       | 12        | 19.48             | 19.47             | 19.46             | 21                  | 3        |    |  |
| 30              | 256QAM     | 1       | 24        | 19.48             | 19.46             | 19.39             |                     |          |    |  |
| 30              | 256QAM     | 12      | 0         | 19.45             | 19.54             | 19.42             |                     |          |    |  |
| 30              | 256QAM     | 12      | 7         | 19.49             | 19.53             | 19.48             |                     |          |    |  |
| 30              | 256QAM     | 12      | 13        | 19.41             | 19.52             | 19.44             | 21                  | 3        |    |  |
| 30              | 256QAM     | 25      | 0         | 19.44             | 19.56             | 19.44             |                     |          |    |  |
| 30              | 256QAM     | 25      | 12        | 19.44             | 19.54             | 19.45             | 21                  | 3        |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 30              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 30              | QPSK       | 1       | 5         | 22.84             | 22.90             | 22.85             |                     |          |    |  |
| 30              | QPSK       | 1       | 14        | 22.76             | 22.84             | 22.78             | 24                  | 0        |    |  |
| 30              | QPSK       | 1       | 23        | 22.84             | 22.88             | 22.73             |                     |          |    |  |
| 30              | QPSK       | 8       | 4         | 22.68             | 22.77             | 22.70             |                     |          |    |  |
| 30              | QPSK       | 8       | 7         | 22.76             | 22.85             | 22.73             | 24                  | 0        |    |  |
| 30              | 16QAM      | 1       | 0         | 22.76             | 22.85             | 22.80             |                     |          |    |  |
| 30              | 16QAM      | 1       | 5         | 22.76             | 22.89             | 22.78             |                     |          |    |  |
| 30              | 16QAM      | 8       | 14        | 22.82             | 22.92             | 22.82             |                     |          |    |  |
| 30              | 16QAM      | 8       | 4         | 22.72             | 22.86             | 22.84             | 24                  | 0        |    |  |
| 30              | 16QAM      | 7       | 0         | 22.87             | 22.90             | 22.80             |                     |          |    |  |
| 30              | 16QAM      | 15      | 0         | 22.74             | 22.84             | 22.79             |                     |          |    |  |
| 30              | 64QAM      | 1       | 0         | 22.73             | 22.88             | 22.71             | 24                  | 0        |    |  |
| 30              | 64QAM      | 1       | 5         | 22.81             | 22.83             | 22.80             |                     |          |    |  |
| 30              | 64QAM      | 1       | 14        | 22.79             | 22.90             | 22.79             |                     |          |    |  |
| 30              | 64QAM      | 8       | 0         | 21.62             | 21.68             | 21.59             |                     |          |    |  |
| 30              | 64QAM      | 8       | 4         | 21.64             | 21.67             | 21.60             | 23                  | 1        |    |  |
| 30              | 64QAM      | 8       | 7         | 21.67             | 21.78             | 21.70             |                     |          |    |  |
| 30              | 64QAM      | 15      | 0         | 21.69             | 21.70             | 21.68             |                     |          |    |  |
| 30              | 256QAM     | 1       | 0         | 19.41             | 19.49             | 19.31             |                     |          |    |  |
| 30              | 256QAM     | 1       | 8         | 19.40             | 19.43             | 19.43             |                     |          |    |  |
| 30              | 256QAM     | 1       | 14        | 19.48             | 19.52             | 19.42             |                     |          |    |  |
| 30              | 256QAM     | 8       | 0         | 19.47             | 19.54             | 19.38             | 21                  | 3        |    |  |
| 30              | 256QAM     | 8       | 4         | 19.41             | 19.52             | 19.43             |                     |          |    |  |
| 30              | 256QAM     | 8       | 7         | 19.44             | 19.58             | 19.45             |                     |          |    |  |
| 30              | 256QAM     | 15      | 0         | 19.42             | 19.52             | 19.45             |                     |          |    |  |
| Channel         |            |         |           |                   |                   |                   |                     |          |    |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                     |          |    |  |
| 14              | QPSK       | 1       | 0         | 1860              | 1860              | 1900              |                     |          |    |  |
| 14              | QPSK       | 1       | 5         | 22.83             | 22.92             | 22.82             |                     |          |    |  |
| 14              | QPSK       | 1       | 5         | 22.72             | 22.85             | 22.81             | 24                  | 0        |    |  |
| 14              | QPSK       | 1       | 10        | 22.84             | 22.88             | 22.73             |                     |          |    |  |
| 14              | QPSK       | 3       | 1         | 22.71             | 22.86             | 22.72             |                     |          |    |  |
| 14              | QPSK       | 3       | 1         | 22.73             | 22.87             | 22.73             | 24                  | 0        |    |  |
| 14              | 16QAM      | 1       | 0         | 22.80             | 22.87             | 22.85             |                     |          |    |  |
| 14              | 16QAM      | 1       | 3         | 22.78             | 22.89             | 22.75             |                     |          |    |  |
| 14              | 16QAM      | 3       | 0         | 22.87             | 22.92             | 22.80             |                     |          |    |  |
| 14              | 16QAM      | 3       | 0         | 22.75             | 22.79             | 22.82             | 24                  | 0        |    |  |
| 14              | 16QAM      | 8       | 0         | 22.82             | 22.92             | 22.83             |                     |          |    |  |
| 14              | 64QAM      | 1       | 0         | 22.78             | 22.84             | 22.82             |                     |          |    |  |
| 14              | 64QAM      | 1       | 0         | 22.72             | 22.82             | 22.74             |                     |          | </ |  |

| Freq (MHz)      | Modulation | RB (MHz) | RB Offset | Power           |                  | Power           |                  | Turn-up time (s) | MPE (dB) |
|-----------------|------------|----------|-----------|-----------------|------------------|-----------------|------------------|------------------|----------|
|                 |            |          |           | Low Power Freq. | High Power Freq. | Low Power Freq. | High Power Freq. |                  |          |
| Channel         |            |          |           |                 |                  |                 |                  |                  |          |
| Frequency (MHz) |            |          |           |                 |                  |                 |                  |                  |          |
| 30              | QPSK       | 1        | 0         | 15.72           | 15.77            | 15.82           |                  |                  |          |
| 30              | QPSK       | 1        | 49        | 15.66           | 15.62            | 15.63           | 17               | 0                |          |
| 30              | QPSK       | 1        | 24        | 15.72           | 15.62            | 15.78           |                  |                  |          |
| 30              | QPSK       | 50       | 0         | 15.62           | 15.66            | 15.65           |                  |                  |          |
| 30              | QPSK       | 50       | 24        | 15.72           | 15.62            | 15.77           |                  |                  |          |
| 30              | QPSK       | 100      | 0         | 15.62           | 15.66            | 15.65           |                  |                  |          |
| 30              | 16QAM      | 1        | 0         | 15.73           | 15.78            | 15.84           |                  |                  |          |
| 30              | 16QAM      | 1        | 24        | 15.72           | 15.62            | 15.78           |                  |                  |          |
| 30              | 16QAM      | 1        | 99        | 15.64           | 15.65            | 15.62           |                  |                  |          |
| 30              | 16QAM      | 50       | 0         | 15.63           | 15.66            | 15.70           |                  |                  |          |
| 30              | 16QAM      | 50       | 24        | 15.70           | 15.62            | 15.75           |                  |                  |          |
| 30              | 16QAM      | 100      | 0         | 15.75           | 15.62            | 15.81           | 17               | 0                |          |
| 30              | 16QAM      | 100      | 24        | 15.72           | 15.62            | 15.77           |                  |                  |          |
| 30              | 16QAM      | 1        | 49        | 15.67           | 15.75            | 15.80           |                  |                  |          |
| 30              | 16QAM      | 1        | 49        | 15.67           | 15.75            | 15.80           | 17               | 0                |          |
| 30              | 16QAM      | 50       | 24        | 15.66           | 15.68            | 15.70           |                  |                  |          |
| 30              | 16QAM      | 50       | 24        | 15.66           | 15.68            | 15.70           |                  |                  |          |
| 30              | 16QAM      | 100      | 24        | 15.61           | 15.72            | 15.71           | 17               | 0                |          |
| 30              | 16QAM      | 1        | 0         | 15.70           | 15.67            | 15.83           |                  |                  |          |
| 30              | 16QAM      | 1        | 99        | 15.67           | 15.68            | 15.70           |                  |                  |          |
| 30              | 256QAM     | 1        | 99        | 15.75           | 15.83            | 15.83           |                  |                  |          |
| 30              | 256QAM     | 50       | 0         | 15.62           | 15.66            | 15.77           |                  |                  |          |
| 30              | 256QAM     | 50       | 24        | 15.62           | 15.66            | 15.77           |                  |                  |          |
| 30              | 256QAM     | 50       | 50        | 15.78           | 15.79            | 15.83           |                  |                  |          |
| 30              | 256QAM     | 100      | 0         | 15.70           | 15.81            | 15.73           |                  |                  |          |
| Channel         |            |          |           |                 |                  |                 |                  |                  |          |
| Frequency (MHz) |            |          |           |                 |                  |                 |                  |                  |          |
| 15              | QPSK       | 1        | 0         | 15.08           | 15.02            | 15.03           |                  |                  |          |
| 15              | QPSK       | 1        | 37        | 15.73           | 15.70            | 15.67           | 17               | 0                |          |
| 15              | QPSK       | 1        | 66        | 15.66           | 15.62            | 15.64           |                  |                  |          |
| 15              | QPSK       | 36       | 0         | 15.78           | 15.80            | 15.65           |                  |                  |          |
| 15              | QPSK       | 36       | 20        | 15.67           | 15.71            | 15.71           |                  |                  |          |
| 15              | QPSK       | 50       | 25        | 15.63           | 15.68            | 15.68           |                  |                  |          |
| 15              | QPSK       | 75       | 0         | 15.46           | 15.67            | 15.66           |                  |                  |          |
| 15              | 16QAM      | 1        | 0         | 15.69           | 15.73            | 15.67           |                  |                  |          |
| 15              | 16QAM      | 1        | 37        | 15.68           | 15.69            | 15.69           |                  |                  |          |
| 15              | 16QAM      | 1        | 74        | 15.61           | 15.61            | 15.76           |                  |                  |          |
| 15              | 16QAM      | 36       | 20        | 15.66           | 15.67            | 15.66           |                  |                  |          |
| 15              | 16QAM      | 36       | 25        | 15.63           | 15.70            | 15.66           |                  |                  |          |
| 15              | 16QAM      | 36       | 39        | 15.46           | 15.72            | 15.85           |                  |                  |          |
| 15              | 16QAM      | 1        | 37        | 15.67           | 15.68            | 15.76           | 17               | 0                |          |
| 15              | 16QAM      | 1        | 0         | 15.67           | 15.68            | 15.76           |                  |                  |          |
| 15              | 16QAM      | 36       | 0         | 15.69           | 15.69            | 15.64           |                  |                  |          |
| 15              | 16QAM      | 36       | 20        | 15.62           | 15.70            | 15.69           |                  |                  |          |
| 15              | 16QAM      | 36       | 25        | 15.62           | 15.68            | 15.68           |                  |                  |          |
| 15              | 16QAM      | 75       | 0         | 15.72           | 15.80            | 15.58           |                  |                  |          |
| 15              | 256QAM     | 1        | 0         | 15.65           | 15.75            | 15.67           |                  |                  |          |
| 15              | 256QAM     | 1        | 37        | 15.65           | 15.73            | 15.63           | 17               | 0                |          |
| 15              | 256QAM     | 1        | 74        | 15.64           | 15.55            | 15.77           |                  |                  |          |
| 15              | 256QAM     | 36       | 0         | 15.47           | 15.69            | 15.66           |                  |                  |          |
| 15              | 256QAM     | 36       | 20        | 15.65           | 15.73            | 15.69           |                  |                  |          |
| 15              | 256QAM     | 36       | 39        | 15.68           | 15.76            | 15.77           |                  |                  |          |
| 15              | 256QAM     | 75       | 0         | 15.68           | 15.73            | 15.66           |                  |                  |          |
| Channel         |            |          |           |                 |                  |                 |                  |                  |          |
| Frequency (MHz) |            |          |           |                 |                  |                 |                  |                  |          |

| BAY<br>MHz      | Modulation | RS<br>Rate | RB<br>Offset | Power        |              |               | Turn-on<br>Time (s) | MFR<br>(dB) |
|-----------------|------------|------------|--------------|--------------|--------------|---------------|---------------------|-------------|
|                 |            |            |              | Low<br>Power | Med<br>Power | High<br>Power |                     |             |
| Channel         |            |            |              |              |              |               |                     |             |
| Frequency (MHz) |            |            |              | 1705         | 1715         | 1725          | 1735                | 1745        |
| 20              | QPSK       | 1          | 5            | 22.85        | 22.91        | 22.85         |                     |             |
| 20              | QPSK       | 1          | 49           | 22.95        | 23.02        | 22.97         | 24                  | 0           |
| 20              | QPSK       | 1          | 93           | 22.95        | 23.02        | 22.97         |                     |             |
| 20              | QPSK       | 50         | 5            | 22.91        | 22.97        | 22.91         |                     |             |
| 20              | QPSK       | 50         | 24           | 22.91        | 22.93        | 22.90         | 24                  | 0           |
| 20              | QPSK       | 50         | 24           | 22.91        | 22.93        | 22.90         |                     |             |
| 20              | QPSK       | 100        | 5            | 22.93        | 22.95        | 22.90         |                     |             |
| 20              | 16QAM      | 1          | 5            | 22.91        | 22.98        | 22.88         |                     |             |
| 20              | 16QAM      | 1          | 49           | 22.91        | 22.98        | 22.88         | 24                  | 0           |
| 20              | 16QAM      | 1          | 99           | 22.88        | 22.94        | 22.88         |                     |             |
| 20              | 16QAM      | 50         | 5            | 22.86        | 22.97        | 22.86         |                     |             |
| 20              | 16QAM      | 50         | 24           | 22.86        | 22.97        | 22.86         | 24                  | 0           |
| 20              | 16QAM      | 50         | 24           | 22.86        | 22.97        | 22.86         |                     |             |
| 20              | 16QAM      | 100        | 5            | 22.86        | 22.97        | 22.86         |                     |             |
| 20              | 16QAM      | 100        | 24           | 22.86        | 22.97        | 22.86         | 24                  | 0           |
| 20              | 64QAM      | 1          | 49           | 22.98        | 22.92        | 22.82         |                     |             |
| 20              | 64QAM      | 1          | 99           | 22.98        | 22.92        | 22.82         |                     |             |
| 20              | 64QAM      | 50         | 5            | 22.90        | 22.96        | 22.83         | 24                  | 0           |
| 20              | 64QAM      | 50         | 24           | 21.91        | 21.99        | 21.90         |                     |             |
| 20              | 64QAM      | 50         | 24           | 21.91        | 21.99        | 21.90         | 23                  | 1           |
| 20              | 64QAM      | 100        | 5            | 21.91        | 21.99        | 21.90         |                     |             |
| 20              | 64QAM      | 100        | 24           | 21.91        | 21.99        | 21.90         | 23                  | 1           |
| 20              | 256QAM     | 1          | 5            | 18.92        | 18.94        | 18.78         |                     |             |
| 20              | 256QAM     | 1          | 49           | 18.92        | 18.94        | 18.78         | 21                  | 3           |
| 20              | 256QAM     | 1          | 99           | 18.92        | 18.94        | 18.78         |                     |             |
| 20              | 256QAM     | 50         | 5            | 18.91        | 18.79        | 18.73         |                     |             |
| 20              | 256QAM     | 50         | 24           | 18.91        | 18.79        | 18.73         | 21                  | 3           |
| 20              | 256QAM     | 50         | 24           | 18.91        | 18.79        | 18.73         |                     |             |
| 20              | 256QAM     | 100        | 5            | 18.91        | 18.82        | 18.78         |                     |             |
| Channel         |            |            |              |              |              |               |                     |             |
| Frequency (MHz) |            |            |              | 1715         | 1732.5       | 1747.5        | Turn-on<br>Time (s) | MFR<br>(dB) |
| 16              | QPSK       | 1          | 5            | 22.78        | 22.84        | 22.74         |                     |             |
| 16              | QPSK       | 1          | 37           | 22.80        | 22.82        | 22.82         | 24                  | 0           |
| 16              | QPSK       | 1          | 69           | 22.80        | 22.82        | 22.82         |                     |             |
| 16              | QPSK       | 36         | 5            | 22.82        | 22.82        | 22.82         |                     |             |
| 16              | QPSK       | 36         | 37           | 22.73        | 22.87        | 22.83         | 24                  | 0           |
| 16              | QPSK       | 36         | 69           | 22.73        | 22.87        | 22.83         |                     |             |
| 16              | QPSK       | 75         | 5            | 22.82        | 22.88        | 22.79         |                     |             |
| 16              | QPSK       | 75         | 37           | 22.82        | 22.91        | 22.81         | 24                  | 0           |
| 16              | QPSK       | 75         | 69           | 22.82        | 22.91        | 22.81         |                     |             |
| 16              | 16QAM      | 1          | 37           | 22.81        | 22.88        | 22.77         |                     |             |
| 16              | 16QAM      | 1          | 74           | 22.82        | 22.82        | 22.82         | 24                  | 0           |
| 16              | 16QAM      | 1          | 205          | 22.81        | 22.85        | 22.77         |                     |             |
| 16              | 16QAM      | 36         | 39           | 22.85        | 22.89        | 22.82         |                     |             |
| 16              | 16QAM      | 36         | 74           | 22.81        | 22.88        | 22.77         | 24                  | 0           |
| 16              | 16QAM      | 36         | 205          | 22.81        | 22.88        | 22.77         |                     |             |
| 16              | 64QAM      | 36         | 2            | 21.78        | 21.90        | 21.88         |                     |             |
| 16              | 64QAM      | 36         | 39           | 21.87        | 21.91        | 21.83         |                     |             |
| 16              | 64QAM      | 36         | 74           | 21.87        | 21.91        | 21.83         | 23                  | 1           |
| 16              | 64QAM      | 36         | 205          | 21.87        | 21.91        | 21.83         |                     |             |
| 16              | 256QAM     | 1          | 3            | 19.73        | 19.74        | 19.76         |                     |             |
| 16              | 256QAM     | 1          | 37           | 19.73        | 19.74        | 19.76         | 21                  | 3           |
| 16              | 256QAM     | 1          | 74           | 19.55        | 19.68        | 19.69         |                     |             |
| 16              | 256QAM     | 36         | 3            | 19.64        | 19.76        | 19.69         |                     |             |
| 16              | 256QAM     | 36         | 39           | 19.64        | 19.76        | 19.69         | 21                  | 3           |
| 16              | 256QAM     | 36         | 74           | 19.64        | 19.76        | 19.69         |                     |             |
| 16              | 256QAM     | 75         | 3            | 19.66        | 19.68        | 19.69         |                     |             |
| Channel         |            |            |              |              |              |               |                     |             |
| Frequency (MHz) |            |            |              | 1715         | 1732.5       | 1747.5        | Turn-on<br>Time (s) | MFR<br>(dB) |
| 10              | QPSK       | 1          | 5            | 22.78        | 22.87        | 22.82         |                     |             |
| 10              | QPSK       | 1          | 25           | 22.82        | 22.90        | 22.86         | 24                  | 0           |
| 10              | QPSK       | 1          | 49           | 22.82        | 22.90        | 22.86         |                     |             |
| 10              | QPSK       | 25         | 5            | 22.83        | 22.94        | 22.81         |                     |             |
| 10              | QPSK       | 25         | 25           | 22.83        | 22.94        | 22.81         | 24                  | 0           |
| 10              | QPSK       | 25         | 49           | 22.83        | 22.94        | 22.81         |                     |             |
| 10              | QPSK       | 50         | 5            | 22.83        | 22.88        | 22.82         |                     |             |
| 10              | QPSK       | 50         | 12           | 22.83        | 22.91        | 22.84         | 24                  | 0           |
| 10              | QPSK       | 50         | 25           | 22.83        | 22.91        | 22.84         |                     |             |
| 10              | 16QAM      | 1          | 25           | 22.83        | 22.88        | 22.83         | 24                  | 0           |
| 10              | 16QAM      | 1          | 49           | 22.83        | 22.88        | 22.83         |                     |             |
| 10              | 16QAM      | 1          | 88           | 22.80        | 22.84        | 22.77         |                     |             |
| 10              | 16QAM      | 1          | 125          | 22.81        | 22.85        | 22.77         | 24                  | 0           |
| 10              | 16QAM      | 25         | 12           | 22.77        | 22.82        | 22.78         |                     |             |
| 10              | 16QAM      | 25         | 25           | 22.85        | 22.91        | 22.85         | 24                  | 0           |
| 10              | 16QAM      | 25         | 49           | 22.85        | 22.91        | 22.85         |                     |             |
| 10              | 16QAM      | 50         | 1            | 21.87        | 21.88        | 21.88         |                     |             |
| 10              | 64QAM      | 25         | 12           | 21.86        | 21.88        | 21.82         | 23                  | 1           |
| 10              | 64QAM      | 25         | 25           | 21.86        | 21.88        | 21.82         |                     |             |
| 10              | 64QAM      | 25         | 49           | 21.86        | 21.88        | 21.82         | 23                  | 1           |
| 10              | 64QAM      | 50         | 1            | 22.00        | 22.05        | 21.99         |                     |             |
| 10              | 64QAM      | 50         | 1            | 19.64        | 19.76        | 19.75         |                     |             |
| 10              | 256QAM     | 25         | 12           | 19.65        | 19.73        | 19.63         |                     |             |
| 10              | 256QAM     | 25         | 25           | 19.65        | 19.73        | 19.63         | 21                  | 3           |
| 10              | 256QAM     | 25         | 49           | 19.65        | 19.73        | 19.63         |                     |             |
| 10              | 256QAM     | 50         | 1            | 19.62        | 19.67        | 19.63         |                     |             |
| Channel         |            |            |              |              |              |               |                     |             |
| Frequency (MHz) |            |            |              | 1715         | 1732.5       | 1747.5        | Turn-on<br>Time (s) | MFR<br>(dB) |
| 5               | QPSK       | 1          | 5            | 22.81        | 22.81        | 22.77         |                     |             |
| 5               | QPSK       | 1          | 12           | 22.81        | 22.88        | 22.84         | 24                  | 0           |
| 5               | QPSK       | 1          | 24           | 22.81        | 22.80        | 22.80         |                     |             |
| 5               | QPSK       | 12         | 5            | 22.85        | 22.87        | 22.82         |                     |             |
| 5               | QPSK       | 12         | 12           | 22.85        | 22.87        | 22.82         | 24                  | 0           |
| 5               | QPSK       | 12         | 24           | 22.85        | 22.87        | 22.82         |                     |             |
| 5               | QPSK       | 25         | 5            | 22.83        | 22.85        | 22.87         |                     |             |
| 5               | QPSK       | 25         | 12           | 22.84        | 22.86        | 22.83         | 24                  | 0           |
| 5               | QPSK       | 25         | 24           | 22.84        | 22.86        | 22.83         |                     |             |
| 5               | 16QAM      | 1          | 12           | 22.84        | 22.89        | 22.88         |                     |             |
| 5               | 16QAM      | 1          | 24           | 22.77        | 22.90        | 22.81         | 24                  | 0           |
| 5               | 16QAM      | 1          | 48           | 22.77        | 22.90        | 22.81         |                     |             |
| 5               | 16QAM      | 12         | 12           | 22.84        | 22.89        | 22.88         | 24                  | 0           |
| 5               | 16QAM      | 12         | 12           | 22.84        | 22.89        | 22.88         |                     |             |
| 5               | 16QAM      | 12         | 24           | 22.84        | 22.89        | 22.88         | 24                  | 0           |
| 5               | 16QAM      | 12         | 48           | 22.84        | 22.89        | 22.88         |                     |             |
| 5               | 16QAM      | 25         | 12           | 22.86        | 22.92        | 22.86         |                     |             |
| 5               | 16QAM      | 25         | 12           | 22.86        | 22.92        | 22.86         | 24                  | 0           |
| 5               | 16QAM      | 25         | 24           | 22.86        | 22.92        | 22.86         |                     |             |
| 5               | 16QAM      | 50         | 1            | 22.81        | 22.87        | 22.78         |                     |             |
| 5               | 64QAM      | 1          | 24           | 22.83        | 22.88        | 22.77         |                     |             |
| 5               | 64QAM      | 1          | 48           | 22.83        | 22.88        | 22.77         | 24                  | 0           |
| 5               | 64QAM      | 12         | 5            | 21.85        | 21.93        | 21.90         |                     |             |
| 5               | 64QAM      | 12         | 12           | 21.86        | 21.96        | 21.87         |                     |             |
| 5               | 64QAM      | 12         | 12           | 21.86        | 21.96        | 21.87         | 23                  | 1           |
| 5               | 64QAM      | 12         | 24           | 21.86        | 21.96        | 21.87         |                     |             |
| 5               | 64QAM      | 25         | 1            | 22.05        | 22.01        | 21.91         |                     |             |
| 5               | 64QAM      | 25         | 1            | 19.62        | 19.74        | 19.63         |                     |             |
| 5               | 256QAM     | 1          | 12           | 19.62        | 19.74        | 19.63         |                     |             |
| 5               | 256QAM     | 1          | 24           | 19.62        | 19.74        | 19.63         | 21                  | 3           |
| 5               | 256QAM     | 1          | 48           | 19.62        | 19.74        | 19.63         |                     |             |
| 5               | 256QAM     | 12         | 7            | 19.71        | 19.71        | 19.64         |                     |             |
| 5               | 256QAM     | 12         | 7            | 19.71        | 19.71        | 19.64         | 21                  | 3           |
| 5               | 256QAM     | 12         | 13           | 19.62        | 19.71        | 19.69         |                     |             |
| 5               | 256QAM     | 12         | 13           | 19.62        | 19.71        | 19.69         | 21                  | 3           |
| 5               | 256QAM     | 12         | 25           | 19.62        | 19.71        | 19.69         |                     |             |
| Channel         |            |            |              |              |              |               |                     |             |
| Frequency (MHz) |            |            |              | 1995.5       | 2017.5       | 2039.5        | Turn-on<br>Time (s) | MFR<br>(dB) |
| 3               | QPSK       | 1          | 5            | 22.81        | 22.88        | 22.75         |                     |             |
| 3               | QPSK       | 1          | 14           | 22.81        | 22.89        | 22.78         | 24                  | 0           |
| 3               | QPSK       | 1          | 28           | 22.81        | 22.89        | 22.78         |                     |             |
| 3               | QPSK       | 8          | 5            | 22.81        | 22.93        | 22.85         |                     |             |
| 3               | QPSK       | 8          | 14           | 22.81        | 22.91        | 22.83         | 24                  | 0           |
| 3               | QPSK       | 8          | 28           | 22.81        | 22.91        | 22.83         |                     |             |
| 3               | QPSK       | 8          | 7            | 22.77        | 22.89        | 22.83         |                     |             |
| 3               | QPSK       | 15         | 5            | 22.91        | 22.89        | 22.88         |                     |             |
| 3               | 16QAM      | 1          | 14           | 22.76        | 22.86        | 22.84         | 24                  | 0           |
| 3               | 16QAM      | 1          | 28           | 22.76        | 22.86        | 22.84         |                     |             |
| 3               | 16QAM      | 8          | 5            | 22.78        | 22.88        | 22.74         |                     |             |
| 3               | 16QAM      | 8          | 14           | 22.78        | 22.88        | 22.74         | 24                  | 0           |
| 3               | 16QAM      | 8          | 28           | 22.78        | 22.88        | 22.74         |                     |             |
| 3               | 16QAM      | 15         | 5            | 22.79        | 22.90        | 22.84         |                     |             |
| 3               | 16QAM      | 15         | 14           | 22.79        | 22.91        | 22.83         | 24                  | 0           |
| 3               | 16QAM      | 15         | 28           | 22.79        | 22.91        | 22.83         |                     |             |
| 3               | 64QAM      | 1          | 14           | 22.88        | 22.92        | 22.80         |                     |             |
| 3               | 64QAM      | 1          | 28           | 22.88        | 22.92        | 22.80         | 23                  | 1           |
| 3               | 64QAM      | 8          | 5            | 21.87        | 21.90        | 21.86         |                     |             |
| 3               | 64QAM      | 8          | 14           | 21.87        | 21.90        | 21.86         | 23                  | 1           |
| 3               | 64QAM      | 8          | 28           | 21.87        | 21.90        | 21.86         |                     |             |
| 3               | 64QAM      | 15         | 5            | 21.83        | 21.93        | 21.87         |                     |             |
| 3               | 64QAM      | 15         | 14           | 21.86        | 22.02        | 21.87         | 24                  | 0           |
| 3               | 64QAM      | 15         | 28           | 21.86        | 22.02        | 21.87         |                     |             |
| 3               | 256QAM     | 1          | 8            | 19.62        | 19.74        | 19.62         |                     |             |
| 3               | 256QAM     | 1          | 14           | 19.60        | 19.65        | 19.62         | 21                  | 3           |
| 3               | 256QAM     | 1          | 28           | 19.60        | 19.65        | 19.62         |                     |             |
| 3               | 256QAM     | 8          | 5            | 19.62        | 19.65        | 19.62         | 21                  | 3           |
| 3               | 256QAM     | 8          | 14           | 19.62        | 19.65        | 19.62         |                     |             |
| 3               | 256QAM     | 8          | 28           | 19.62        | 19.65        | 19.62         | 21                  | 3           |
| 3               | 256QAM     | 15         | 5            | 19.69        | 19.70        | 19.69         |                     |             |
| 3               | 256QAM     | 15         | 14           | 19.69        | 19.70        | 19.69         | 24                  | 0           |
| 3               | 256QAM     | 15         | 28           | 19.69        | 19.70        | 19.69         |                     |             |



| Band 4_Ant 1    |             |             |               |                                |                                |                                |                      |             |  |
|-----------------|-------------|-------------|---------------|--------------------------------|--------------------------------|--------------------------------|----------------------|-------------|--|
| BN<br>[MHz]     | Module<br># | Rel<br>Size | Rel<br>Offset | Power<br>Level<br>Ch /<br>Freq | Power<br>Level<br>Ch /<br>Freq | Power<br>Level<br>Ch /<br>Freq | Turn-up<br>int. (dB) | MFR<br>(dB) |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 20              | QPSK        | 1           | 0             | 16.69                          | 16.86                          | 16.59                          |                      |             |  |
| 20              | QPSK        | 1           | 49            | 16.67                          | 16.35                          | 16.36                          | 18.1                 | 0           |  |
| 20              | QPSK        | 1           | 99            | 16.66                          | 16.71                          | 16.62                          |                      |             |  |
| 20              | QPSK        | 50          | 0             | 16.73                          | 16.84                          | 16.75                          |                      |             |  |
| 20              | QPSK        | 50          | 24            | 16.62                          | 16.73                          | 16.72                          | 18.1                 | 0           |  |
| 20              | QPSK        | 50          | 50            | 16.70                          | 16.84                          | 16.75                          |                      |             |  |
| 20              | QPSK        | 100         | 0             | 16.71                          | 16.81                          | 16.61                          |                      |             |  |
| 20              | 16QAM       | 1           | 0             | 16.68                          | 16.80                          | 16.54                          |                      |             |  |
| 20              | 16QAM       | 1           | 49            | 16.67                          | 16.80                          | 16.70                          | 18.1                 | 0           |  |
| 20              | 16QAM       | 1           | 99            | 16.69                          | 16.62                          | 16.62                          |                      |             |  |
| 20              | 16QAM       | 50          | 0             | 16.62                          | 16.67                          | 16.70                          |                      |             |  |
| 20              | 16QAM       | 50          | 24            | 16.52                          | 16.65                          | 16.63                          | 18.1                 | 0           |  |
| 20              | 16QAM       | 50          | 50            | 16.62                          | 16.63                          | 16.60                          |                      |             |  |
| 20              | 64QAM       | 1           | 0             | 16.68                          | 16.68                          | 16.70                          |                      |             |  |
| 20              | 64QAM       | 1           | 49            | 16.70                          | 16.70                          | 16.68                          | 18.1                 | 0           |  |
| 20              | 64QAM       | 1           | 99            | 16.69                          | 16.75                          | 16.81                          |                      |             |  |
| 20              | 64QAM       | 50          | 0             | 16.69                          | 16.67                          | 16.61                          |                      |             |  |
| 20              | 64QAM       | 50          | 24            | 16.68                          | 16.62                          | 16.70                          | 18.1                 | 0           |  |
| 20              | 64QAM       | 50          | 50            | 16.63                          | 16.61                          | 16.70                          |                      |             |  |
| 20              | 256QAM      | 1           | 0             | 16.76                          | 16.67                          | 16.54                          |                      |             |  |
| 20              | 256QAM      | 1           | 49            | 16.68                          | 16.69                          | 16.61                          | 18.1                 | 0           |  |
| 20              | 256QAM      | 1           | 99            | 16.77                          | 16.66                          | 16.62                          |                      |             |  |
| 20              | 256QAM      | 50          | 0             | 16.69                          | 16.65                          | 16.61                          |                      |             |  |
| 20              | 256QAM      | 50          | 24            | 16.72                          | 16.70                          | 16.64                          | 18.1                 | 0           |  |
| 20              | 256QAM      | 50          | 50            | 16.64                          | 16.72                          | 16.70                          |                      |             |  |
| 20              | 256QAM      | 100         | 0             | 16.62                          | 16.66                          | 16.69                          |                      |             |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 15              | QPSK        | 1           | 0             | 16.68                          | 16.70                          | 16.45                          |                      |             |  |
| 15              | QPSK        | 1           | 49            | 16.68                          | 16.70                          | 16.45                          | 18.1                 | 0           |  |
| 15              | QPSK        | 1           | 74            | 16.52                          | 16.56                          | 16.72                          |                      |             |  |
| 15              | QPSK        | 36          | 0             | 16.74                          | 16.80                          | 16.61                          |                      |             |  |
| 15              | QPSK        | 36          | 24            | 16.62                          | 16.65                          | 16.63                          | 18.1                 | 0           |  |
| 15              | QPSK        | 36          | 50            | 16.58                          | 16.53                          | 16.67                          |                      |             |  |
| 15              | QPSK        | 75          | 0             | 16.58                          | 16.68                          | 16.49                          |                      |             |  |
| 15              | 16QAM       | 1           | 0             | 16.67                          | 16.67                          | 16.63                          |                      |             |  |
| 15              | 16QAM       | 1           | 37            | 16.56                          | 16.53                          | 16.65                          | 18.1                 | 0           |  |
| 15              | 16QAM       | 1           | 74            | 16.44                          | 16.56                          | 16.53                          |                      |             |  |
| 15              | 16QAM       | 36          | 0             | 16.62                          | 16.70                          | 16.63                          |                      |             |  |
| 15              | 16QAM       | 36          | 20            | 16.57                          | 16.59                          | 16.62                          | 18.1                 | 0           |  |
| 15              | 16QAM       | 36          | 50            | 16.42                          | 16.53                          | 16.47                          |                      |             |  |
| 15              | 16QAM       | 75          | 0             | 16.48                          | 16.74                          | 16.50                          |                      |             |  |
| 15              | 64QAM       | 1           | 0             | 16.51                          | 16.62                          | 16.57                          |                      |             |  |
| 15              | 64QAM       | 1           | 37            | 16.61                          | 16.58                          | 16.67                          | 18.1                 | 0           |  |
| 15              | 64QAM       | 1           | 74            | 16.60                          | 16.65                          | 16.70                          |                      |             |  |
| 15              | 64QAM       | 36          | 0             | 16.61                          | 16.64                          | 16.48                          |                      |             |  |
| 15              | 64QAM       | 36          | 20            | 16.59                          | 16.51                          | 16.66                          | 18.1                 | 0           |  |
| 15              | 64QAM       | 36          | 50            | 16.51                          | 16.52                          | 16.73                          |                      |             |  |
| 15              | 64QAM       | 75          | 0             | 16.62                          | 16.64                          | 16.70                          |                      |             |  |
| 15              | 256QAM      | 1           | 0             | 16.69                          | 16.60                          | 16.44                          |                      |             |  |
| 15              | 256QAM      | 1           | 37            | 16.62                          | 16.65                          | 16.70                          | 18.1                 | 0           |  |
| 15              | 256QAM      | 1           | 74            | 16.62                          | 16.58                          | 16.67                          |                      |             |  |
| 15              | 256QAM      | 36          | 0             | 16.58                          | 16.58                          | 16.50                          |                      |             |  |
| 15              | 256QAM      | 36          | 20            | 16.60                          | 16.58                          | 16.50                          | 18.1                 | 0           |  |
| 15              | 256QAM      | 36          | 50            | 16.60                          | 16.59                          | 16.72                          |                      |             |  |
| 15              | 256QAM      | 75          | 0             | 16.62                          | 16.64                          | 16.68                          |                      |             |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 10              | QPSK        | 1           | 0             | 16.55                          | 16.83                          | 16.56                          |                      |             |  |
| 10              | QPSK        | 1           | 25            | 16.72                          | 16.80                          | 16.56                          | 18.1                 | 0           |  |
| 10              | QPSK        | 1           | 49            | 16.48                          | 16.59                          | 16.73                          |                      |             |  |
| 10              | QPSK        | 25          | 0             | 16.78                          | 16.82                          | 16.60                          |                      |             |  |
| 10              | QPSK        | 25          | 25            | 16.62                          | 16.50                          | 16.69                          | 18.1                 | 0           |  |
| 10              | QPSK        | 50          | 0             | 16.61                          | 16.66                          | 16.47                          |                      |             |  |
| 10              | 16QAM       | 1           | 0             | 16.67                          | 16.71                          | 16.60                          |                      |             |  |
| 10              | 16QAM       | 1           | 25            | 16.52                          | 16.46                          | 16.59                          | 18.1                 | 0           |  |
| 10              | 16QAM       | 1           | 49            | 16.48                          | 16.48                          | 16.53                          |                      |             |  |
| 10              | 16QAM       | 25          | 0             | 16.58                          | 16.77                          | 16.72                          |                      |             |  |
| 10              | 16QAM       | 25          | 12            | 16.48                          | 16.61                          | 16.75                          | 18.1                 | 0           |  |
| 10              | 16QAM       | 25          | 25            | 16.58                          | 16.48                          | 16.55                          |                      |             |  |
| 10              | 16QAM       | 50          | 0             | 16.48                          | 16.70                          | 16.50                          |                      |             |  |
| 10              | 64QAM       | 1           | 0             | 16.58                          | 16.58                          | 16.63                          |                      |             |  |
| 10              | 64QAM       | 1           | 25            | 16.69                          | 16.58                          | 16.55                          | 18.1                 | 0           |  |
| 10              | 64QAM       | 49          | 0             | 16.64                          | 16.67                          | 16.70                          |                      |             |  |
| 10              | 64QAM       | 25          | 0             | 16.62                          | 16.60                          | 16.58                          |                      |             |  |
| 10              | 64QAM       | 25          | 12            | 16.69                          | 16.53                          | 16.60                          | 18.1                 | 0           |  |
| 10              | 64QAM       | 25          | 25            | 16.62                          | 16.48                          | 16.54                          |                      |             |  |
| 10              | 64QAM       | 50          | 0             | 16.54                          | 16.52                          | 16.62                          |                      |             |  |
| 10              | 256QAM      | 1           | 0             | 16.54                          | 16.52                          | 16.44                          |                      |             |  |
| 10              | 256QAM      | 1           | 25            | 16.64                          | 16.57                          | 16.60                          | 18.1                 | 0           |  |
| 10              | 256QAM      | 1           | 49            | 16.72                          | 16.50                          | 16.70                          |                      |             |  |
| 10              | 256QAM      | 25          | 0             | 16.54                          | 16.67                          | 16.48                          |                      |             |  |
| 10              | 256QAM      | 25          | 12            | 16.59                          | 16.67                          | 16.50                          | 18.1                 | 0           |  |
| 10              | 256QAM      | 25          | 25            | 16.49                          | 16.68                          | 16.69                          |                      |             |  |
| 10              | 256QAM      | 50          | 0             | 16.55                          | 16.59                          | 16.62                          |                      |             |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 5               | QPSK        | 1           | 0             | 16.67                          | 16.83                          | 16.45                          |                      |             |  |
| 5               | QPSK        | 1           | 12            | 16.75                          | 16.82                          | 16.45                          | 18.1                 | 0           |  |
| 5               | QPSK        | 1           | 24            | 16.45                          | 16.68                          | 16.67                          |                      |             |  |
| 5               | QPSK        | 12          | 0             | 16.77                          | 16.81                          | 16.74                          |                      |             |  |
| 5               | QPSK        | 12          | 7             | 16.58                          | 16.69                          | 16.62                          | 18.1                 | 0           |  |
| 5               | QPSK        | 12          | 13            | 16.59                          | 16.62                          | 16.68                          |                      |             |  |
| 5               | QPSK        | 25          | 0             | 16.62                          | 16.72                          | 16.47                          |                      |             |  |
| 5               | 16QAM       | 1           | 0             | 16.56                          | 16.78                          | 16.50                          |                      |             |  |
| 5               | 16QAM       | 1           | 12            | 16.63                          | 16.50                          | 16.63                          | 18.1                 | 0           |  |
| 5               | 16QAM       | 1           | 24            | 16.47                          | 16.49                          | 16.61                          |                      |             |  |
| 5               | 16QAM       | 12          | 0             | 16.51                          | 16.63                          | 16.68                          |                      |             |  |
| 5               | 16QAM       | 12          | 7             | 16.40                          | 16.54                          | 16.70                          | 18.1                 | 0           |  |
| 5               | 16QAM       | 12          | 13            | 16.48                          | 16.69                          | 16.47                          |                      |             |  |
| 5               | 16QAM       | 25          | 0             | 16.62                          | 16.73                          | 16.56                          |                      |             |  |
| 5               | 64QAM       | 1           | 0             | 16.58                          | 16.62                          | 16.68                          |                      |             |  |
| 5               | 64QAM       | 1           | 12            | 16.69                          | 16.59                          | 16.65                          | 18.1                 | 0           |  |
| 5               | 64QAM       | 24          | 0             | 16.61                          | 16.61                          | 16.74                          |                      |             |  |
| 5               | 64QAM       | 12          | 0             | 16.52                          | 16.64                          | 16.54                          |                      |             |  |
| 5               | 64QAM       | 12          | 7             | 16.54                          | 16.57                          | 16.69                          | 18.1                 | 0           |  |
| 5               | 64QAM       | 12          | 13            | 16.58                          | 16.53                          | 16.65                          |                      |             |  |
| 5               | 64QAM       | 25          | 0             | 16.63                          | 16.67                          | 16.65                          |                      |             |  |
| 5               | 256QAM      | 1           | 0             | 16.69                          | 16.57                          | 16.47                          |                      |             |  |
| 5               | 256QAM      | 1           | 12            | 16.59                          | 16.63                          | 16.72                          | 18.1                 | 0           |  |
| 5               | 256QAM      | 1           | 24            | 16.63                          | 16.52                          | 16.74                          |                      |             |  |
| 5               | 256QAM      | 12          | 0             | 16.65                          | 16.55                          | 16.46                          |                      |             |  |
| 5               | 256QAM      | 12          | 7             | 16.64                          | 16.58                          | 16.67                          | 18.1                 | 0           |  |
| 5               | 256QAM      | 12          | 13            | 16.63                          | 16.69                          | 16.63                          |                      |             |  |
| 5               | 256QAM      | 25          | 0             | 16.48                          | 16.69                          | 16.65                          |                      |             |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 3               | QPSK        | 1           | 0             | 16.63                          | 16.76                          | 16.58                          |                      |             |  |
| 3               | QPSK        | 8           | 0             | 16.63                          | 16.76                          | 16.58                          | 18.1                 | 0           |  |
| 3               | QPSK        | 1           | 14            | 16.53                          | 16.64                          | 16.77                          |                      |             |  |
| 3               | QPSK        | 8           | 0             | 16.78                          | 16.71                          | 16.63                          |                      |             |  |
| 3               | QPSK        | 8           | 4             | 16.53                          | 16.68                          | 16.68                          | 18.1                 | 0           |  |
| 3               | QPSK        | 8           | 7             | 16.63                          | 16.51                          | 16.65                          |                      |             |  |
| 3               | QPSK        | 15          | 0             | 16.69                          | 16.73                          | 16.68                          |                      |             |  |
| 3               | 16QAM       | 1           | 0             | 16.56                          | 16.67                          | 16.54                          |                      |             |  |
| 3               | 16QAM       | 1           | 8             | 16.59                          | 16.57                          | 16.65                          | 18.1                 | 0           |  |
| 3               | 16QAM       | 1           | 14            | 16.48                          | 16.58                          | 16.62                          |                      |             |  |
| 3               | 16QAM       | 8           | 0             | 16.48                          | 16.67                          | 16.71                          |                      |             |  |
| 3               | 16QAM       | 8           | 7             | 16.48                          | 16.61                          | 16.67                          | 18.1                 | 0           |  |
| 3               | 16QAM       | 15          | 0             | 16.63                          | 16.62                          | 16.52                          |                      |             |  |
| 3               | 64QAM       | 1           | 0             | 16.58                          | 16.61                          | 16.59                          |                      |             |  |
| 3               | 64QAM       | 1           | 8             | 16.69                          | 16.65                          | 16.60                          | 18.1                 | 0           |  |
| 3               | 64QAM       | 14          | 0             | 16.67                          | 16.68                          | 16.61                          |                      |             |  |
| 3               | 64QAM       | 8           | 0             | 16.68                          | 16.56                          | 16.56                          |                      |             |  |
| 3               | 64QAM       | 8           | 7             | 16.58                          | 16.49                          | 16.58                          | 18.1                 | 0           |  |
| 3               | 64QAM       | 15          | 0             | 16.63                          | 16.55                          | 16.71                          |                      |             |  |
| 3               | 256QAM      | 1           | 0             | 16.69                          | 16.60                          | 16.48                          |                      |             |  |
| 3               | 256QAM      | 8           | 0             | 16.59                          | 16.67                          | 16.68                          | 18.1                 | 0           |  |
| 3               | 256QAM      | 1           | 14            | 16.66                          | 16.54                          | 16.67                          |                      |             |  |
| 3               | 256QAM      | 8           | 0             | 16.58                          | 16.52                          | 16.50                          |                      |             |  |
| 3               | 256QAM      | 8           | 4             | 16.68                          | 16.69                          | 16.65                          | 18.1                 | 0           |  |
| 3               | 256QAM      | 8           | 7             | 16.59                          | 16.70                          | 16.74                          |                      |             |  |
| 3               | 256QAM      | 15          | 0             | 16.60                          | 16.60                          | 16.65                          |                      |             |  |
| Channel         |             |             |               |                                |                                |                                |                      |             |  |
| Frequency (MHz) |             |             |               |                                |                                |                                |                      |             |  |
| 1.4             | QPSK        | 1           | 0             | 16.60                          | 16.72                          | 16.51                          |                      |             |  |
| 1.4             | QPSK        | 1           | 5             | 16.53                          | 16.70                          | 16.75                          | 18.1                 | 0           |  |
| 1.4             | QPSK        | 3           | 0             | 16.73                          | 16.74                          | 16.63                          |                      |             |  |
| 1.4             | QPSK        | 3           | 16.63         | 16.58                          | 16.60                          | 18.1                           | 0                    |             |  |
| 1.4             | QPSK        | 3           | 16.63         | 16.52                          | 16.60                          |                                |                      |             |  |
| 1.4             | 16QAM       | 1           | 0             | 16.60                          | 16.67                          | 16.52                          |                      |             |  |
| 1.4             | 16QAM       | 1           | 3             | 16.60                          | 16.56                          | 16.57                          |                      |             |  |
| 1.4             | 16QAM       | 3           | 0             | 16.62                          | 16.83                          | 16.64                          | 18.1                 | 0           |  |
| 1.4             | 16QAM       | 3           | 0             | 16.42                          | 16.62                          | 16.54                          |                      |             |  |
| 1.4             | 16QAM       | 6           | 0             | 16.58                          | 16.73                          | 16.48                          | 18.1                 | 0           |  |
| 1.4             | 16QAM       | 1           | 0             | 16.53                          | 16.67                          | 16.65                          |                      |             |  |
| 1.4             | 16QAM       | 1           | 5             | 16.53                          | 16.63                          | 16.61                          |                      |             |  |
| 1.4             | 16QAM       | 1           | 5             | 16.66                          | 16.67                          | 16.61                          | 18.1                 | 0           |  |
| 1.4             | 64QAM       | 3           | 0             | 16.64                          | 16.53                          | 16.60                          |                      |             |  |
| 1.4             | 64QAM       | 3           | 0             | 16.52                          | 16.62                          | 16.48                          | 18.1                 | 0           |  |
| 1.4             | 64QAM       | 3           | 0             | 16.62                          | 16.62                          | 16.75                          |                      |             |  |
| 1.4             | 256QAM      | 1           | 0             | 16.74                          | 16.59                          | 16.47                          |                      |             |  |
| 1.4             | 256QAM      | 3           | 0             | 16.63                          | 16.54                          | 16.70                          | 18.1                 | 0           |  |
| 1.4             | 256QAM      | 3           | 3             | 16.70                          | 16.62                          | 16.68                          |                      |             |  |
| 1.4             | 256QAM      | 3           | 3             | 16.62                          | 16.67                          | 16.68                          | 18.1                 | 0           |  |

| Band 66_Ant 0        |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
|----------------------|----------------|---------|-----------------------|-------------------------|--------------------------|------------------------|--------------------|----------|----|---|--|--|--|--|
| RF [MHz]             | Modulation [Q] | RF Size | RF Offset [Ch / Freq] | Power Level [Ch / Freq] | Power Margin [Ch / Freq] | Power High [Ch / Freq] | Time-up last [dBm] | MPR [dB] |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 20                   | QPSK           | 1       | 0                     | 23.05                   | 22.99                    | 22.93                  | 24                 | 0        |    |   |  |  |  |  |
| 20                   | QPSK           | 1       | 49                    | 22.97                   | 22.93                    | 22.93                  |                    |          |    |   |  |  |  |  |
| 20                   | QPSK           | 1       | 99                    | 22.91                   | 22.91                    | 22.87                  |                    |          |    |   |  |  |  |  |
| 20                   | QPSK           | 50      | 0                     | 23.03                   | 22.95                    | 22.94                  |                    |          |    |   |  |  |  |  |
| 20                   | QPSK           | 50      | 24                    | 22.98                   | 22.93                    | 22.86                  | 24                 | 0        |    |   |  |  |  |  |
| 20                   | QPSK           | 50      | 50                    | 22.95                   | 22.92                    | 22.87                  |                    |          |    |   |  |  |  |  |
| 20                   | QPSK           | 100     | 0                     | 22.91                   | 22.92                    | 22.97                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 1       | 0                     | 22.98                   | 22.91                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 1       | 49                    | 22.90                   | 22.94                    | 22.94                  | 24                 | 0        |    |   |  |  |  |  |
| 20                   | 16QAM          | 1       | 99                    | 22.88                   | 22.93                    | 22.88                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 0                     | 22.90                   | 22.91                    | 22.94                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 24                    | 22.92                   | 22.90                    | 22.91                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 50                    | 22.88                   | 22.98                    | 22.82                  | 24                 | 0        |    |   |  |  |  |  |
| 20                   | 16QAM          | 100     | 0                     | 22.90                   | 22.90                    | 22.92                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 1       | 49                    | 22.94                   | 22.95                    | 22.85                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 1       | 99                    | 22.92                   | 22.92                    | 22.92                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 0                     | 21.82                   | 21.83                    | 21.86                  | 23                 | 1        |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 24                    | 21.82                   | 21.90                    | 21.83                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 50      | 50                    | 21.89                   | 21.92                    | 21.88                  |                    |          |    |   |  |  |  |  |
| 20                   | 16QAM          | 100     | 0                     | 21.80                   | 21.86                    | 21.87                  |                    |          |    |   |  |  |  |  |
| 20                   | 25QAM          | 1       | 0                     | 20.23                   | 20.24                    | 20.20                  | 21                 | 3        |    |   |  |  |  |  |
| 20                   | 25QAM          | 1       | 49                    | 20.18                   | 20.16                    | 20.19                  |                    |          |    |   |  |  |  |  |
| 20                   | 25QAM          | 1       | 99                    | 20.17                   | 20.15                    | 20.07                  |                    |          |    |   |  |  |  |  |
| 20                   | 25QAM          | 50      | 0                     | 20.19                   | 20.13                    | 20.06                  |                    |          |    |   |  |  |  |  |
| 20                   | 25QAM          | 50      | 24                    | 20.21                   | 20.14                    | 20.09                  | 21                 | 3        |    |   |  |  |  |  |
| 20                   | 25QAM          | 50      | 50                    | 20.15                   | 20.19                    | 20.14                  |                    |          |    |   |  |  |  |  |
| 20                   | 25QAM          | 100     | 0                     | 20.17                   | 20.13                    | 20.07                  |                    |          |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 15                   | QPSK           | 1       | 0                     | 22.94                   | 22.92                    | 22.88                  | 24                 | 0        |    |   |  |  |  |  |
| 15                   | QPSK           | 1       | 37                    | 22.87                   | 22.91                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 15                   | QPSK           | 1       | 74                    | 22.81                   | 22.86                    | 22.77                  |                    |          |    |   |  |  |  |  |
| 15                   | QPSK           | 36      | 0                     | 23.00                   | 22.94                    | 22.90                  |                    |          |    |   |  |  |  |  |
| 15                   | QPSK           | 36      | 36                    | 22.88                   | 22.87                    | 22.78                  | 24                 | 0        |    |   |  |  |  |  |
| 15                   | QPSK           | 36      | 59                    | 22.90                   | 22.98                    | 22.77                  |                    |          |    |   |  |  |  |  |
| 15                   | QPSK           | 75      | 0                     | 22.78                   | 22.88                    | 22.85                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 0                     | 22.81                   | 22.86                    | 22.87                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 37                    | 22.83                   | 22.91                    | 22.74                  | 24                 | 0        |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 74                    | 22.81                   | 22.92                    | 22.78                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 0                     | 22.85                   | 22.90                    | 22.78                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 20                    | 22.90                   | 22.93                    | 22.71                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 39                    | 22.88                   | 22.87                    | 22.74                  | 24                 | 0        |    |   |  |  |  |  |
| 15                   | 16QAM          | 75      | 0                     | 22.78                   | 22.76                    | 22.71                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 0                     | 22.94                   | 22.79                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 37                    | 22.83                   | 22.81                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 1       | 74                    | 22.78                   | 22.80                    | 22.80                  | 23                 | 1        |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 0                     | 21.78                   | 21.91                    | 21.89                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 20                    | 21.78                   | 21.81                    | 21.80                  |                    |          |    |   |  |  |  |  |
| 15                   | 16QAM          | 36      | 39                    | 21.74                   | 21.83                    | 21.84                  |                    |          |    |   |  |  |  |  |
| 15                   | 25QAM          | 1       | 0                     | 20.12                   | 20.21                    | 20.19                  | 21                 | 3        |    |   |  |  |  |  |
| 15                   | 25QAM          | 1       | 37                    | 20.04                   | 20.15                    | 20.05                  |                    |          |    |   |  |  |  |  |
| 15                   | 25QAM          | 1       | 74                    | 20.05                   | 20.10                    | 19.99                  |                    |          |    |   |  |  |  |  |
| 15                   | 25QAM          | 36      | 0                     | 20.17                   | 20.08                    | 20.02                  |                    |          |    |   |  |  |  |  |
| 15                   | 25QAM          | 36      | 20                    | 20.11                   | 19.99                    | 19.95                  | 21                 | 3        |    |   |  |  |  |  |
| 15                   | 25QAM          | 36      | 39                    | 20.10                   | 20.15                    | 20.00                  |                    |          |    |   |  |  |  |  |
| 15                   | 25QAM          | 75      | 0                     | 20.01                   | 20.13                    | 19.97                  |                    |          |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 10                   | QPSK           | 1       | 0                     | 22.93                   | 22.92                    | 22.86                  | 24                 | 0        |    |   |  |  |  |  |
| 10                   | QPSK           | 1       | 12                    | 22.94                   | 22.96                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 10                   | QPSK           | 1       | 49                    | 22.90                   | 22.96                    | 22.76                  |                    |          |    |   |  |  |  |  |
| 10                   | QPSK           | 25      | 0                     | 22.90                   | 22.99                    | 22.87                  |                    |          |    |   |  |  |  |  |
| 10                   | QPSK           | 25      | 12                    | 22.88                   | 22.97                    | 22.81                  | 24                 | 0        |    |   |  |  |  |  |
| 10                   | QPSK           | 25      | 25                    | 22.94                   | 22.92                    | 22.84                  |                    |          |    |   |  |  |  |  |
| 10                   | QPSK           | 50      | 0                     | 22.82                   | 23.01                    | 22.94                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 0                     | 22.88                   | 22.89                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 25                    | 22.82                   | 22.86                    | 22.89                  | 24                 | 0        |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 49                    | 22.78                   | 22.94                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 0                     | 22.88                   | 22.88                    | 22.78                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 12                    | 22.88                   | 22.89                    | 22.88                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 25                    | 22.86                   | 22.87                    | 22.74                  | 24                 | 0        |    |   |  |  |  |  |
| 10                   | 16QAM          | 50      | 0                     | 22.81                   | 22.74                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 0                     | 22.86                   | 22.88                    | 22.71                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 25                    | 22.82                   | 22.86                    | 22.89                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 1       | 49                    | 22.87                   | 22.90                    | 22.86                  | 23                 | 1        |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 0                     | 21.83                   | 21.90                    | 21.88                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 12                    | 21.80                   | 21.88                    | 21.84                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 25      | 25                    | 21.82                   | 21.87                    | 21.87                  |                    |          |    |   |  |  |  |  |
| 10                   | 16QAM          | 50      | 0                     | 21.69                   | 21.76                    | 21.94                  | 21                 | 3        |    |   |  |  |  |  |
| 10                   | 25QAM          | 1       | 0                     | 20.22                   | 20.14                    | 20.14                  |                    |          |    |   |  |  |  |  |
| 10                   | 25QAM          | 1       | 25                    | 20.12                   | 20.10                    | 19.99                  |                    |          |    |   |  |  |  |  |
| 10                   | 25QAM          | 1       | 49                    | 20.16                   | 20.04                    | 20.03                  |                    |          |    |   |  |  |  |  |
| 10                   | 25QAM          | 12      | 0                     | 20.10                   | 19.99                    | 19.97                  | 21                 | 3        |    |   |  |  |  |  |
| 10                   | 25QAM          | 12      | 7                     | 20.11                   | 20.08                    | 19.95                  |                    |          |    |   |  |  |  |  |
| 10                   | 25QAM          | 25      | 0                     | 20.10                   | 20.08                    | 20.06                  |                    |          |    |   |  |  |  |  |
| 10                   | 25QAM          | 50      | 0                     | 19.93                   | 20.04                    | 19.98                  |                    |          |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 5                    | QPSK           | 1       | 0                     | 22.91                   | 22.87                    | 22.85                  | 24                 | 0        |    |   |  |  |  |  |
| 5                    | QPSK           | 1       | 12                    | 22.94                   | 22.98                    | 22.89                  |                    |          |    |   |  |  |  |  |
| 5                    | QPSK           | 1       | 24                    | 22.90                   | 22.87                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 5                    | QPSK           | 12      | 0                     | 22.91                   | 22.92                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 5                    | QPSK           | 12      | 7                     | 22.82                   | 22.90                    | 22.81                  | 24                 | 0        |    |   |  |  |  |  |
| 5                    | QPSK           | 12      | 13                    | 22.87                   | 22.89                    | 22.76                  |                    |          |    |   |  |  |  |  |
| 5                    | QPSK           | 25      | 0                     | 22.77                   | 22.97                    | 22.82                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 0                     | 22.88                   | 22.87                    | 22.87                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 12                    | 22.80                   | 22.85                    | 22.70                  | 24                 | 0        |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 24                    | 22.83                   | 22.96                    | 22.83                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 0                     | 22.83                   | 22.86                    | 22.73                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 7                     | 22.84                   | 22.84                    | 22.80                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 13                    | 22.77                   | 22.96                    | 22.76                  | 24                 | 0        |    |   |  |  |  |  |
| 5                    | 16QAM          | 25      | 0                     | 22.77                   | 22.80                    | 22.78                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 0                     | 22.90                   | 22.88                    | 22.71                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 12                    | 22.91                   | 22.88                    | 22.75                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 1       | 24                    | 22.84                   | 22.89                    | 22.81                  | 23                 | 1        |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 0                     | 21.86                   | 21.86                    | 21.85                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 7                     | 21.78                   | 21.79                    | 21.86                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 12      | 13                    | 21.85                   | 21.78                    | 21.78                  |                    |          |    |   |  |  |  |  |
| 5                    | 16QAM          | 25      | 0                     | 21.67                   | 21.83                    | 21.84                  | 21                 | 3        |    |   |  |  |  |  |
| 5                    | 25QAM          | 1       | 0                     | 20.22                   | 20.14                    | 20.14                  |                    |          |    |   |  |  |  |  |
| 5                    | 25QAM          | 1       | 12                    | 20.14                   | 20.13                    | 20.03                  |                    |          |    |   |  |  |  |  |
| 5                    | 25QAM          | 1       | 24                    | 20.12                   | 20.10                    | 20.00                  |                    |          |    |   |  |  |  |  |
| 5                    | 25QAM          | 12      | 0                     | 20.07                   | 20.07                    | 19.92                  | 21                 | 3        |    |   |  |  |  |  |
| 5                    | 25QAM          | 12      | 7                     | 20.11                   | 20.08                    | 19.95                  |                    |          |    |   |  |  |  |  |
| 5                    | 25QAM          | 25      | 0                     | 20.10                   | 20.08                    | 20.06                  |                    |          |    |   |  |  |  |  |
| 5                    | 25QAM          | 50      | 0                     | 19.93                   | 20.04                    | 20.04                  |                    |          |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 3                    | QPSK           | 1       | 0                     | 22.91                   | 22.87                    | 22.85                  | 24                 | 0        |    |   |  |  |  |  |
| 3                    | QPSK           | 1       | 8                     | 22.92                   | 22.97                    | 22.92                  |                    |          |    |   |  |  |  |  |
| 3                    | QPSK           | 1       | 14                    | 22.79                   | 22.91                    | 22.76                  |                    |          |    |   |  |  |  |  |
| 3                    | QPSK           | 12      | 0                     | 22.91                   | 22.92                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 3                    | QPSK           | 8       | 4                     | 22.88                   | 22.91                    | 22.72                  | 24                 | 0        |    |   |  |  |  |  |
| 3                    | QPSK           | 8       | 7                     | 22.92                   | 22.87                    | 22.79                  |                    |          |    |   |  |  |  |  |
| 3                    | QPSK           | 15      | 0                     | 22.87                   | 22.91                    | 22.83                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 1       | 0                     | 22.83                   | 22.89                    | 22.79                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 1       | 8                     | 22.82                   | 22.89                    | 22.89                  | 24                 | 0        |    |   |  |  |  |  |
| 3                    | 16QAM          | 14      | 0                     | 22.87                   | 22.91                    | 22.83                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 8       | 4                     | 22.83                   | 22.88                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 4       | 7                     | 22.78                   | 22.83                    | 22.67                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 7       | 7                     | 22.84                   | 22.84                    | 22.84                  | 24                 | 0        |    |   |  |  |  |  |
| 3                    | 16QAM          | 15      | 0                     | 22.87                   | 22.88                    | 22.72                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 1       | 0                     | 22.89                   | 22.75                    | 22.75                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 1       | 8                     | 22.88                   | 22.75                    | 22.75                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 8       | 0                     | 21.87                   | 21.86                    | 21.86                  | 24                 | 0        |    |   |  |  |  |  |
| 3                    | 16QAM          | 14      | 0                     | 21.79                   | 21.81                    | 21.81                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 8       | 7                     | 21.74                   | 21.78                    | 21.87                  |                    |          |    |   |  |  |  |  |
| 3                    | 16QAM          | 15      | 0                     | 21.68                   | 21.80                    | 21.80                  |                    |          |    |   |  |  |  |  |
| 3                    | 25QAM          | 1       | 8                     | 20.19                   | 20.19                    | 20.09                  | 21                 | 3        |    |   |  |  |  |  |
| 3                    | 25QAM          | 14      | 0                     | 20.06                   | 20.07                    | 20.02                  |                    |          |    |   |  |  |  |  |
| 3                    | 25QAM          | 8       | 4                     | 20.07                   | 20.08                    | 20.03                  |                    |          |    |   |  |  |  |  |
| 3                    | 25QAM          | 8       | 7                     | 20.03                   | 20.06                    | 20.03                  |                    |          |    |   |  |  |  |  |
| 3                    | 25QAM          | 15      | 0                     | 20.03                   | 20.06                    | 20.03                  | 21                 | 3        |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 1       | 0                     | 22.90                   | 22.88                    | 22.84                  |                    |          | 24 | 0 |  |  |  |  |
| 1.4                  | QPSK           | 1       | 3                     | 22.90                   | 22.90                    | 22.93                  |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 1       | 5                     | 22.78                   | 22.98                    | 22.73                  |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 3       | 0                     | 22.84                   | 22.94                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 3       | 3                     | 22.83                   | 22.97                    | 22.73                  | 24                 | 0        |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 1       | 0                     | 22.90                   | 22.88                    | 22.84                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 1       | 3                     | 22.76                   | 22.91                    | 22.75                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 3       | 0                     | 22.82                   | 22.90                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 3       | 3                     | 22.78                   | 22.92                    | 22.83                  | 24                 | 0        |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 1       | 0                     | 22.92                   | 22.80                    | 22.74                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 3       | 0                     | 22.86                   | 22.87                    | 22.86                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 1       | 0                     | 22.96                   | 22.83                    | 22.67                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 1       | 3                     | 22.72                   | 22.76                    | 22.69                  | 24                 | 0        |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 3       | 3                     | 22.76                   | 22.77                    | 22.77                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 6       | 0                     | 21.72                   | 21.81                    | 21.82                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 16QAM          | 3       | 3                     | 20.03                   | 20.11                    | 20.01                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 25QAM          | 1       | 0                     | 20.17                   | 20.06                    | 19.99                  | 21                 | 3        |    |   |  |  |  |  |
| 1.4                  | 25QAM          | 1       | 3                     | 20.09                   | 20.09                    | 19.99                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 25QAM          | 3       | 0                     | 20.18                   | 20.09                    | 20.04                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 25QAM          | 3       | 3                     | 20.06                   | 20.12                    | 20.06                  |                    |          |    |   |  |  |  |  |
| 1.4                  | 25QAM          | 3       | 6                     | 19.98                   | 20.19                    | 20.06                  | 21                 | 3        |    |   |  |  |  |  |
| Channel              |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 133072 133072 133072 |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| Frequency [MHz]      |                |         |                       |                         |                          |                        |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 1       | 0                     | 22.90                   | 22.88                    | 22.84                  |                    |          | 24 | 0 |  |  |  |  |
| 1.4                  | QPSK           | 1       | 5                     | 22.78                   | 22.98                    | 22.73                  |                    |          |    |   |  |  |  |  |
| 1.4                  | QPSK           | 1       | 5                     | 22.78                   |                          |                        |                    |          |    |   |  |  |  |  |



| Band 48_Ant 4   |            |         |           |                       |                              |                               |                        |                     |          |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |  |
| 20              | QPSK       | 1       | 0         | 18.85                 | 18.79                        | 18.79                         | 18.94                  | 20                  | 0        |  |  |  |
| 20              | QPSK       | 1       | 49        | 19.02                 | 19.87                        | 19.03                         | 19.08                  |                     |          |  |  |  |
| 20              | QPSK       | 1       | 99        | 18.93                 | 18.81                        | 18.86                         | 18.92                  |                     |          |  |  |  |
| 20              | QPSK       | 50      | 0         | 18.93                 | 18.81                        | 18.97                         | 19.03                  |                     |          |  |  |  |
| 20              | QPSK       | 50      | 24        | 18.73                 | 18.73                        | 18.66                         | 18.79                  | 20                  | 0        |  |  |  |
| 20              | QPSK       | 50      | 50        | 18.89                 | 18.79                        | 18.72                         | 18.81                  |                     |          |  |  |  |
| 20              | QPSK       | 100     | 0         | 18.78                 | 18.75                        | 18.73                         | 19.01                  |                     |          |  |  |  |
| 20              | 16QAM      | 1       | 0         | 18.88                 | 18.76                        | 18.91                         | 19.05                  |                     |          |  |  |  |
| 20              | 16QAM      | 1       | 49        | 18.87                 | 18.73                        | 18.80                         | 18.80                  | 20                  | 0        |  |  |  |
| 20              | 16QAM      | 1       | 99        | 18.73                 | 18.74                        | 18.67                         | 18.84                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 0         | 18.93                 | 18.79                        | 19.01                         | 18.98                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 24        | 18.81                 | 18.69                        | 18.73                         | 18.86                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 18.80                 | 18.69                        | 18.71                         | 18.88                  | 20                  | 0        |  |  |  |
| 20              | 16QAM      | 100     | 0         | 18.96                 | 18.73                        | 19.00                         | 18.98                  |                     |          |  |  |  |
| 20              | 64QAM      | 1       | 0         | 18.92                 | 18.79                        | 18.84                         | 18.79                  |                     |          |  |  |  |
| 20              | 64QAM      | 1       | 49        | 18.84                 | 18.68                        | 18.77                         | 18.93                  |                     |          |  |  |  |
| 20              | 64QAM      | 1       | 99        | 18.99                 | 18.85                        | 19.02                         | 19.02                  | 20                  | 0        |  |  |  |
| 20              | 64QAM      | 50      | 0         | 18.80                 | 18.67                        | 18.85                         | 18.79                  |                     |          |  |  |  |
| 20              | 64QAM      | 50      | 24        | 18.83                 | 18.76                        | 18.78                         | 18.87                  |                     |          |  |  |  |
| 20              | 64QAM      | 50      | 50        | 18.94                 | 18.74                        | 19.00                         | 18.96                  |                     |          |  |  |  |
| 20              | 64QAM      | 100     | 0         | 18.88                 | 18.78                        | 18.83                         | 18.90                  | 20                  | 0        |  |  |  |
| 20              | 256QAM     | 1       | 0         | 18.82                 | 18.69                        | 18.73                         | 18.92                  |                     |          |  |  |  |
| 20              | 256QAM     | 1       | 49        | 18.93                 | 18.77                        | 18.97                         | 18.94                  |                     |          |  |  |  |
| 20              | 256QAM     | 1       | 99        | 18.81                 | 18.77                        | 18.78                         | 18.83                  |                     |          |  |  |  |
| 20              | 256QAM     | 50      | 0         | 18.70                 | 18.76                        | 18.67                         | 18.89                  | 20                  | 0        |  |  |  |
| 20              | 256QAM     | 50      | 24        | 18.72                 | 18.76                        | 18.67                         | 18.80                  |                     |          |  |  |  |
| 20              | 256QAM     | 50      | 50        | 18.92                 | 18.78                        | 18.96                         | 18.97                  |                     |          |  |  |  |
| 20              | 256QAM     | 100     | 0         | 18.83                 | 18.74                        | 18.82                         | 18.86                  |                     |          |  |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |  |
| 15              | QPSK       | 1       | 0         | 18.81                 | 18.78                        | 18.72                         | 18.81                  | 20                  | 0        |  |  |  |
| 15              | QPSK       | 1       | 37        | 18.90                 | 18.75                        | 18.98                         | 19.02                  |                     |          |  |  |  |
| 15              | QPSK       | 1       | 74        | 18.79                 | 18.66                        | 18.81                         | 18.78                  |                     |          |  |  |  |
| 15              | QPSK       | 36      | 0         | 18.58                 | 18.63                        | 18.51                         | 18.74                  |                     |          |  |  |  |
| 15              | QPSK       | 36      | 20        | 18.78                 | 18.73                        | 18.88                         | 18.98                  | 20                  | 0        |  |  |  |
| 15              | QPSK       | 36      | 39        | 18.80                 | 18.76                        | 18.62                         | 18.68                  |                     |          |  |  |  |
| 15              | QPSK       | 75      | 0         | 18.63                 | 18.64                        | 18.64                         | 18.94                  |                     |          |  |  |  |
| 15              | 16QAM      | 1       | 0         | 18.78                 | 18.61                        | 18.87                         | 18.96                  |                     |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 18.79                 | 18.59                        | 18.78                         | 18.75                  | 20                  | 0        |  |  |  |
| 15              | 16QAM      | 1       | 74        | 18.64                 | 18.70                        | 18.60                         | 18.81                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 0         | 18.92                 | 18.69                        | 18.92                         | 18.86                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 20        | 18.77                 | 18.55                        | 18.66                         | 18.78                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 39        | 18.70                 | 18.64                        | 18.69                         | 18.76                  | 20                  | 0        |  |  |  |
| 15              | 16QAM      | 75      | 0         | 18.81                 | 18.67                        | 18.90                         | 18.90                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 0         | 18.79                 | 18.66                        | 18.73                         | 18.75                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 37        | 18.78                 | 18.56                        | 18.76                         | 18.86                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 74        | 18.84                 | 18.82                        | 18.87                         | 18.89                  | 20                  | 0        |  |  |  |
| 15              | 64QAM      | 36      | 0         | 18.79                 | 18.66                        | 18.80                         | 18.65                  |                     |          |  |  |  |
| 15              | 64QAM      | 36      | 20        | 18.77                 | 18.63                        | 18.77                         | 18.83                  |                     |          |  |  |  |
| 15              | 64QAM      | 36      | 39        | 18.91                 | 18.60                        | 18.98                         | 18.94                  |                     |          |  |  |  |
| 15              | 64QAM      | 75      | 0         | 18.79                 | 18.71                        | 18.81                         | 18.68                  | 20                  | 0        |  |  |  |
| 15              | 256QAM     | 1       | 0         | 18.69                 | 18.57                        | 18.66                         | 18.82                  |                     |          |  |  |  |
| 15              | 256QAM     | 1       | 37        | 18.87                 | 18.73                        | 18.83                         | 18.82                  |                     |          |  |  |  |
| 15              | 256QAM     | 1       | 74        | 18.76                 | 18.63                        | 18.77                         | 18.72                  |                     |          |  |  |  |
| 15              | 256QAM     | 36      | 0         | 18.60                 | 18.61                        | 18.64                         | 18.85                  | 20                  | 0        |  |  |  |
| 15              | 256QAM     | 36      | 20        | 18.70                 | 18.75                        | 18.61                         | 18.71                  |                     |          |  |  |  |
| 15              | 256QAM     | 36      | 39        | 18.85                 | 18.63                        | 18.88                         | 18.82                  |                     |          |  |  |  |
| 15              | 256QAM     | 75      | 0         | 18.68                 | 18.62                        | 18.78                         | 18.85                  |                     |          |  |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |  |
| 10              | QPSK       | 1       | 0         | 18.77                 | 18.64                        | 18.67                         | 18.79                  | 20                  | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        | 18.98                 | 18.78                        | 18.91                         | 19.03                  |                     |          |  |  |  |
| 10              | QPSK       | 1       | 49        | 18.78                 | 18.78                        | 18.76                         | 18.88                  |                     |          |  |  |  |
| 10              | QPSK       | 25      | 0         | 18.67                 | 18.64                        | 18.52                         | 18.74                  |                     |          |  |  |  |
| 10              | QPSK       | 25      | 12        | 18.85                 | 18.72                        | 18.90                         | 18.95                  | 20                  | 0        |  |  |  |
| 10              | QPSK       | 25      | 25        | 18.85                 | 18.65                        | 18.66                         | 18.72                  |                     |          |  |  |  |
| 10              | QPSK       | 50      | 0         | 18.72                 | 18.69                        | 18.62                         | 18.89                  |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 0         | 18.81                 | 18.73                        | 18.86                         | 19.00                  |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 25        | 18.85                 | 18.69                        | 18.73                         | 18.73                  | 20                  | 0        |  |  |  |
| 10              | 16QAM      | 1       | 49        | 18.63                 | 18.59                        | 18.66                         | 18.73                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 0         | 18.82                 | 18.70                        | 18.95                         | 18.90                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 12        | 18.66                 | 18.56                        | 18.65                         | 18.74                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 25        | 18.72                 | 18.60                        | 18.61                         | 18.77                  | 20                  | 0        |  |  |  |
| 10              | 16QAM      | 50      | 0         | 18.86                 | 18.65                        | 18.95                         | 18.96                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 0         | 18.85                 | 18.75                        | 18.80                         | 18.66                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 25        | 18.70                 | 18.59                        | 18.69                         | 18.79                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 49        | 18.96                 | 18.84                        | 18.98                         | 18.95                  | 20                  | 0        |  |  |  |
| 10              | 64QAM      | 25      | 0         | 18.72                 | 18.55                        | 18.73                         | 18.73                  |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 12        | 18.73                 | 18.65                        | 18.71                         | 18.85                  |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 25        | 18.92                 | 18.63                        | 18.98                         | 18.94                  |                     |          |  |  |  |
| 10              | 64QAM      | 50      | 0         | 18.80                 | 18.65                        | 18.68                         | 18.75                  | 20                  | 0        |  |  |  |
| 10              | 256QAM     | 1       | 0         | 18.76                 | 18.59                        | 18.64                         | 18.77                  |                     |          |  |  |  |
| 10              | 256QAM     | 1       | 25        | 18.80                 | 18.71                        | 18.88                         | 18.93                  |                     |          |  |  |  |
| 10              | 256QAM     | 1       | 49        | 18.69                 | 18.62                        | 18.71                         | 18.79                  |                     |          |  |  |  |
| 10              | 256QAM     | 25      | 0         | 18.86                 | 18.63                        | 18.73                         | 18.85                  | 20                  | 0        |  |  |  |
| 10              | 256QAM     | 25      | 12        | 18.59                 | 18.71                        | 18.61                         | 18.65                  |                     |          |  |  |  |
| 10              | 256QAM     | 25      | 25        | 18.83                 | 18.76                        | 18.91                         | 18.95                  |                     |          |  |  |  |
| 10              | 256QAM     | 50      | 0         | 18.68                 | 18.63                        | 18.80                         | 18.75                  |                     |          |  |  |  |
| Channel         |            |         |           | 55285                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 18.71                 | 18.66                        | 18.73                         | 18.90                  | 20                  | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 18.91                 | 18.64                        | 18.68                         | 18.98                  |                     |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 18.79                 | 18.78                        | 18.81                         | 18.87                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 18.63                 | 18.67                        | 18.57                         | 18.75                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 18.85                 | 18.76                        | 18.96                         | 18.92                  | 20                  | 0        |  |  |  |
| 5               | QPSK       | 12      | 13        | 18.74                 | 18.71                        | 18.68                         | 18.69                  |                     |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 18.70                 | 18.70                        | 18.63                         | 18.97                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 18.75                 | 18.61                        | 18.84                         | 18.94                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 18.85                 | 18.71                        | 18.68                         | 18.74                  | 20                  | 0        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 18.68                 | 18.62                        | 18.56                         | 18.74                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 18.86                 | 18.75                        | 18.96                         | 18.87                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 18.74                 | 18.57                        | 18.72                         | 18.82                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 18.72                 | 18.68                        | 18.57                         | 18.85                  | 20                  | 0        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 18.86                 | 18.67                        | 18.89                         | 18.94                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 0         | 18.84                 | 18.64                        | 18.79                         | 18.65                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 12        | 18.72                 | 18.57                        | 18.76                         | 18.88                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 24        | 18.90                 | 18.82                        | 19.01                         | 19.00                  | 20                  | 0        |  |  |  |
| 5               | 64QAM      | 12      | 0         | 18.66                 | 18.60                        | 18.70                         | 18.67                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 7         | 18.72                 | 18.64                        | 18.67                         | 18.75                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 13        | 18.86                 | 18.73                        | 18.96                         | 18.93                  |                     |          |  |  |  |
| 5               | 64QAM      | 25      | 0         | 18.85                 | 18.68                        | 18.82                         | 18.73                  | 20                  | 0        |  |  |  |
| 5               | 256QAM     | 1       | 0         | 18.69                 | 18.63                        | 18.71                         | 18.82                  |                     |          |  |  |  |
| 5               | 256QAM     | 1       | 12        | 18.89                 | 18.63                        | 18.91                         | 18.91                  |                     |          |  |  |  |
| 5               | 256QAM     | 1       | 24        | 18.67                 | 18.72                        | 18.72                         | 18.68                  |                     |          |  |  |  |
| 5               | 256QAM     | 12      | 0         | 18.62                 | 18.73                        | 18.62                         | 18.83                  | 20                  | 0        |  |  |  |
| 5               | 256QAM     | 12      | 7         | 18.62                 | 18.65                        | 18.55                         | 18.74                  |                     |          |  |  |  |
| 5               | 256QAM     | 12      | 13        | 18.82                 | 18.72                        | 18.85                         | 18.94                  |                     |          |  |  |  |
| 5               | 256QAM     | 25      | 0         | 18.77                 | 18.60                        | 18.80                         | 18.83                  |                     |          |  |  |  |

| Band 48_Ant 8   |            |            |              |                                |                                          |                                           |                                 |                           |             |  |  |
|-----------------|------------|------------|--------------|--------------------------------|------------------------------------------|-------------------------------------------|---------------------------------|---------------------------|-------------|--|--|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch.<br>/ Freq. | Power<br>Low<br>Middle<br>Ch.<br>/ Freq. | Power<br>High<br>Middle<br>Ch.<br>/ Freq. | Power<br>High<br>Ch.<br>/ Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |            |              | 55340                          | 55830                                    | 56150                                     | 56640                           | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3590                           | 3609                                     | 3641                                      | 3690                            |                           |             |  |  |
| 20              | QPSK       | 1          | 0            | 14.64                          | 14.55                                    | 14.57                                     | 14.71                           | 16.2                      | 0           |  |  |
| 20              | QPSK       | 1          | 49           | 14.71                          | 14.82                                    | 14.74                                     | 14.84                           |                           |             |  |  |
| 20              | QPSK       | 1          | 99           | 14.56                          | 14.59                                    | 14.68                                     | 14.63                           |                           |             |  |  |
| 20              | QPSK       | 50         | 0            | 14.69                          | 14.71                                    | 14.70                                     | 14.78                           |                           |             |  |  |
| 20              | QPSK       | 50         | 24           | 14.51                          | 14.47                                    | 14.49                                     | 14.66                           | 16.2                      | 0           |  |  |
| 20              | QPSK       | 50         | 50           | 14.53                          | 14.58                                    | 14.64                                     | 14.58                           |                           |             |  |  |
| 20              | QPSK       | 100        | 0            | 14.55                          | 14.48                                    | 14.50                                     | 14.66                           |                           |             |  |  |
| 20              | 16QAM      | 1          | 0            | 14.63                          | 14.72                                    | 14.69                                     | 14.69                           |                           |             |  |  |
| 20              | 16QAM      | 1          | 49           | 14.45                          | 14.55                                    | 14.60                                     | 14.52                           | 16.2                      | 0           |  |  |
| 20              | 16QAM      | 1          | 99           | 14.52                          | 14.47                                    | 14.52                                     | 14.65                           |                           |             |  |  |
| 20              | 16QAM      | 50         | 0            | 14.57                          | 14.81                                    | 14.65                                     | 14.74                           |                           |             |  |  |
| 20              | 16QAM      | 50         | 24           | 14.43                          | 14.56                                    | 14.63                                     | 14.60                           |                           |             |  |  |
| 20              | 16QAM      | 50         | 50           | 14.56                          | 14.44                                    | 14.54                                     | 14.60                           | 16.2                      | 0           |  |  |
| 20              | 16QAM      | 100        | 0            | 14.63                          | 14.75                                    | 14.62                                     | 14.82                           |                           |             |  |  |
| 20              | 64QAM      | 1          | 0            | 14.49                          | 14.45                                    | 14.63                                     | 14.55                           |                           |             |  |  |
| 20              | 64QAM      | 1          | 49           | 14.58                          | 14.48                                    | 14.53                                     | 14.62                           |                           |             |  |  |
| 20              | 64QAM      | 1          | 99           | 14.67                          | 14.79                                    | 14.73                                     | 14.77                           | 16.2                      | 0           |  |  |
| 20              | 64QAM      | 50         | 0            | 14.45                          | 14.45                                    | 14.67                                     | 14.55                           |                           |             |  |  |
| 20              | 64QAM      | 50         | 24           | 14.61                          | 14.49                                    | 14.48                                     | 14.64                           |                           |             |  |  |
| 20              | 64QAM      | 50         | 50           | 14.67                          | 14.81                                    | 14.66                                     | 14.73                           |                           |             |  |  |
| 20              | 64QAM      | 100        | 0            | 14.41                          | 14.54                                    | 14.62                                     | 14.62                           | 16.2                      | 0           |  |  |
| 20              | 256QAM     | 1          | 0            | 14.58                          | 14.44                                    | 14.51                                     | 14.66                           |                           |             |  |  |
| 20              | 256QAM     | 1          | 49           | 14.67                          | 14.71                                    | 14.70                                     | 14.71                           |                           |             |  |  |
| 20              | 256QAM     | 1          | 99           | 14.54                          | 14.53                                    | 14.65                                     | 14.50                           |                           |             |  |  |
| 20              | 256QAM     | 50         | 0            | 14.56                          | 14.46                                    | 14.49                                     | 14.61                           | 16.2                      | 0           |  |  |
| 20              | 256QAM     | 50         | 24           | 14.51                          | 14.52                                    | 14.53                                     | 14.62                           |                           |             |  |  |
| 20              | 256QAM     | 50         | 50           | 14.69                          | 14.69                                    | 14.69                                     | 14.83                           |                           |             |  |  |
| 20              | 256QAM     | 100        | 0            | 14.47                          | 14.52                                    | 14.53                                     | 14.59                           |                           |             |  |  |
| Channel         |            |            |              | 55315                          | 55820                                    | 56160                                     | 56665                           | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3557.5                         | 3608                                     | 3642                                      | 3692.5                          |                           |             |  |  |
| 15              | QPSK       | 1          | 0            | 14.63                          | 14.48                                    | 14.55                                     | 14.56                           | 16.2                      | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 14.57                          | 14.68                                    | 14.71                                     | 14.74                           |                           |             |  |  |
| 15              | QPSK       | 1          | 74           | 14.42                          | 14.49                                    | 14.54                                     | 14.49                           |                           |             |  |  |
| 15              | QPSK       | 36         | 0            | 14.41                          | 14.42                                    | 14.45                                     | 14.63                           |                           |             |  |  |
| 15              | QPSK       | 36         | 20           | 14.62                          | 14.62                                    | 14.64                                     | 14.72                           | 16.2                      | 0           |  |  |
| 15              | QPSK       | 36         | 39           | 14.41                          | 14.50                                    | 14.57                                     | 14.43                           |                           |             |  |  |
| 15              | QPSK       | 75         | 0            | 14.43                          | 14.44                                    | 14.38                                     | 14.55                           |                           |             |  |  |
| 15              | 16QAM      | 1          | 0            | 14.54                          | 14.62                                    | 14.55                                     | 14.68                           |                           |             |  |  |
| 15              | 16QAM      | 1          | 37           | 14.34                          | 14.54                                    | 14.48                                     | 14.38                           | 16.2                      | 0           |  |  |
| 15              | 16QAM      | 1          | 74           | 14.49                          | 14.35                                    | 14.45                                     | 14.63                           |                           |             |  |  |
| 15              | 16QAM      | 36         | 0            | 14.50                          | 14.79                                    | 14.64                                     | 14.72                           |                           |             |  |  |
| 15              | 16QAM      | 36         | 20           | 14.38                          | 14.49                                    | 14.55                                     | 14.54                           |                           |             |  |  |
| 15              | 16QAM      | 36         | 39           | 14.54                          | 14.30                                    | 14.40                                     | 14.50                           | 16.2                      | 0           |  |  |
| 15              | 16QAM      | 75         | 0            | 14.49                          | 14.72                                    | 14.50                                     | 14.71                           |                           |             |  |  |
| 15              | 64QAM      | 1          | 0            | 14.41                          | 14.42                                    | 14.57                                     | 14.47                           |                           |             |  |  |
| 15              | 64QAM      | 1          | 37           | 14.47                          | 14.47                                    | 14.44                                     | 14.59                           |                           |             |  |  |
| 15              | 64QAM      | 1          | 74           | 14.58                          | 14.69                                    | 14.72                                     | 14.63                           | 16.2                      | 0           |  |  |
| 15              | 64QAM      | 36         | 0            | 14.34                          | 14.36                                    | 14.64                                     | 14.49                           |                           |             |  |  |
| 15              | 64QAM      | 36         | 20           | 14.54                          | 14.35                                    | 14.33                                     | 14.49                           |                           |             |  |  |
| 15              | 64QAM      | 36         | 39           | 14.59                          | 14.71                                    | 14.52                                     | 14.71                           |                           |             |  |  |
| 15              | 64QAM      | 75         | 0            | 14.29                          | 14.43                                    | 14.51                                     | 14.61                           | 16.2                      | 0           |  |  |
| 15              | 256QAM     | 1          | 0            | 14.52                          | 14.42                                    | 14.49                                     | 14.60                           |                           |             |  |  |
| 15              | 256QAM     | 1          | 37           | 14.57                          | 14.64                                    | 14.67                                     | 14.58                           |                           |             |  |  |
| 15              | 256QAM     | 1          | 74           | 14.48                          | 14.40                                    | 14.58                                     | 14.44                           |                           |             |  |  |
| 15              | 256QAM     | 36         | 0            | 14.44                          | 14.36                                    | 14.46                                     | 14.55                           | 16.2                      | 0           |  |  |
| 15              | 256QAM     | 36         | 20           | 14.43                          | 14.50                                    | 14.44                                     | 14.53                           |                           |             |  |  |
| 15              | 256QAM     | 36         | 39           | 14.62                          | 14.57                                    | 14.55                                     | 14.74                           |                           |             |  |  |
| 15              | 256QAM     | 75         | 0            | 14.43                          | 14.43                                    | 14.40                                     | 14.57                           |                           |             |  |  |
| Channel         |            |            |              | 55290                          | 55815                                    | 56165                                     | 56690                           | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3555                           | 3607.5                                   | 3642.5                                    | 3695                            |                           |             |  |  |
| 10              | QPSK       | 1          | 0            | 14.61                          | 14.43                                    | 14.49                                     | 14.64                           | 16.2                      | 0           |  |  |
| 10              | QPSK       | 1          | 25           | 14.66                          | 14.67                                    | 14.70                                     | 14.79                           |                           |             |  |  |
| 10              | QPSK       | 1          | 49           | 14.49                          | 14.44                                    | 14.54                                     | 14.55                           |                           |             |  |  |
| 10              | QPSK       | 25         | 0            | 14.45                          | 14.46                                    | 14.38                                     | 14.52                           |                           |             |  |  |
| 10              | QPSK       | 25         | 12           | 14.55                          | 14.65                                    | 14.63                                     | 14.77                           | 16.2                      | 0           |  |  |
| 10              | QPSK       | 25         | 25           | 14.43                          | 14.47                                    | 14.56                                     | 14.57                           |                           |             |  |  |
| 10              | QPSK       | 50         | 0            | 14.44                          | 14.45                                    | 14.49                                     | 14.53                           |                           |             |  |  |
| 10              | 16QAM      | 1          | 0            | 14.50                          | 14.60                                    | 14.58                                     | 14.58                           |                           |             |  |  |
| 10              | 16QAM      | 1          | 25           | 14.30                          | 14.42                                    | 14.58                                     | 14.40                           | 16.2                      | 0           |  |  |
| 10              | 16QAM      | 1          | 49           | 14.48                          | 14.44                                    | 14.40                                     | 14.62                           |                           |             |  |  |
| 10              | 16QAM      | 25         | 0            | 14.53                          | 14.79                                    | 14.51                                     | 14.59                           |                           |             |  |  |
| 10              | 16QAM      | 25         | 12           | 14.28                          | 14.49                                    | 14.61                                     | 14.57                           |                           |             |  |  |
| 10              | 16QAM      | 25         | 25           | 14.50                          | 14.30                                    | 14.43                                     | 14.45                           | 16.2                      | 0           |  |  |
| 10              | 16QAM      | 50         | 0            | 14.48                          | 14.71                                    | 14.60                                     | 14.80                           |                           |             |  |  |
| 10              | 64QAM      | 1          | 0            | 14.38                          | 14.32                                    | 14.54                                     | 14.46                           |                           |             |  |  |
| 10              | 64QAM      | 1          | 25           | 14.48                          | 14.35                                    | 14.47                                     | 14.49                           |                           |             |  |  |
| 10              | 64QAM      | 1          | 49           | 14.65                          | 14.74                                    | 14.66                                     | 14.74                           | 16.2                      | 0           |  |  |
| 10              | 64QAM      | 25         | 0            | 14.44                          | 14.42                                    | 14.54                                     | 14.41                           |                           |             |  |  |
| 10              | 64QAM      | 25         | 12           | 14.48                          | 14.44                                    | 14.37                                     | 14.58                           |                           |             |  |  |
| 10              | 64QAM      | 25         | 25           | 14.62                          | 14.73                                    | 14.82                                     | 14.72                           |                           |             |  |  |
| 10              | 64QAM      | 50         | 0            | 14.27                          | 14.48                                    | 14.48                                     | 14.52                           | 16.2                      | 0           |  |  |
| 10              | 256QAM     | 1          | 0            | 14.44                          | 14.38                                    | 14.40                                     | 14.51                           |                           |             |  |  |
| 10              | 256QAM     | 1          | 25           | 14.65                          | 14.59                                    | 14.68                                     | 14.67                           |                           |             |  |  |
| 10              | 256QAM     | 1          | 49           | 14.41                          | 14.51                                    | 14.50                                     | 14.40                           |                           |             |  |  |
| 10              | 256QAM     | 25         | 0            | 14.55                          | 14.36                                    | 14.47                                     | 14.48                           | 16.2                      | 0           |  |  |
| 10              | 256QAM     | 25         | 12           | 14.45                          | 14.41                                    | 14.41                                     | 14.53                           |                           |             |  |  |
| 10              | 256QAM     | 25         | 25           | 14.68                          | 14.58                                    | 14.59                                     | 14.69                           |                           |             |  |  |
| 10              | 256QAM     | 50         | 0            | 14.34                          | 14.43                                    | 14.42                                     | 14.57                           |                           |             |  |  |
| Channel         |            |            |              | 55265                          | 55810                                    | 56170                                     | 56715                           | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3552.5                         | 3607                                     | 3643                                      | 3697.5                          |                           |             |  |  |
| 5               | QPSK       | 1          | 0            | 14.59                          | 14.40                                    | 14.55                                     | 14.66                           | 16.2                      | 0           |  |  |
| 5               | QPSK       | 1          | 12           | 14.69                          | 14.80                                    | 14.73                                     | 14.73                           |                           |             |  |  |
| 5               | QPSK       | 1          | 24           | 14.53                          | 14.58                                    | 14.55                                     | 14.51                           |                           |             |  |  |
| 5               | QPSK       | 12         | 0            | 14.43                          | 14.43                                    | 14.35                                     | 14.51                           |                           |             |  |  |
| 5               | QPSK       | 12         | 7            | 14.58                          | 14.65                                    | 14.61                                     | 14.73                           | 16.2                      | 0           |  |  |
| 5               | QPSK       | 12         | 13           | 14.44                          | 14.45                                    | 14.57                                     | 14.54                           |                           |             |  |  |
| 5               | QPSK       | 25         | 0            | 14.54                          | 14.36                                    | 14.38                                     | 14.50                           |                           |             |  |  |
| 5               | 16QAM      | 1          | 0            | 14.55                          | 14.59                                    | 14.68                                     | 14.63                           |                           |             |  |  |
| 5               | 16QAM      | 1          | 12           | 14.35                          | 14.47                                    | 14.46                                     | 14.42                           | 16.2                      | 0           |  |  |
| 5               | 16QAM      | 1          | 24           | 14.41                          | 14.41                                    | 14.39                                     | 14.62                           |                           |             |  |  |
| 5               | 16QAM      | 12         | 0            | 14.49                          | 14.74                                    | 14.52                                     | 14.72                           |                           |             |  |  |
| 5               | 16QAM      | 12         | 7            | 14.36                          | 14.49                                    | 14.53                                     | 14.59                           |                           |             |  |  |
| 5               | 16QAM      | 12         | 13           | 14.54                          | 14.30                                    | 14.50                                     | 14.48                           | 16.2                      | 0           |  |  |
| 5               | 16QAM      | 25         | 0            | 14.59                          | 14.66                                    | 14.51                                     | 14.74                           |                           |             |  |  |
| 5               | 64QAM      | 1          | 0            | 14.44                          | 14.43                                    | 14.62                                     | 14.40                           |                           |             |  |  |
| 5               | 64QAM      | 1          | 12           | 14.45                          | 14.40                                    | 14.52                                     | 14.49                           |                           |             |  |  |
| 5               | 64QAM      | 1          | 24           | 14.57                          | 14.75                                    | 14.60                                     | 14.64                           | 16.2                      | 0           |  |  |
| 5               | 64QAM      | 12         | 0            | 14.38                          | 14.42                                    | 14.60                                     | 14.52                           |                           |             |  |  |
| 5               | 64QAM      | 12         | 7            | 14.56                          | 14.45                                    | 14.34                                     | 14.60                           |                           |             |  |  |
| 5               | 64QAM      | 12         | 13           | 14.66                          | 14.44                                    | 14.64                                     | 14.58                           |                           |             |  |  |
| 5               | 64QAM      | 25         | 0            | 14.29                          | 14.43                                    | 14.59                                     | 14.57                           | 16.2                      | 0           |  |  |
| 5               | 256QAM     | 1          | 0            | 14.54                          | 14.37                                    | 14.38                                     | 14.80                           |                           |             |  |  |
| 5               | 256QAM     | 1          | 12           | 14.60                          | 14.58                                    | 14.57                                     | 14.57                           |                           |             |  |  |
| 5               | 256QAM     | 1          | 24           | 14.48                          | 14.50                                    | 14.54                                     | 14.47                           |                           |             |  |  |
| 5               | 256QAM     | 12         | 0            | 14.42                          | 14.40                                    | 14.41                                     | 14.55                           | 16.2                      | 0           |  |  |
| 5               | 256QAM     | 12         | 7            | 14.43                          | 14.44                                    | 14.40                                     | 14.56                           |                           |             |  |  |
| 5               | 256QAM     | 12         | 13           | 14.58                          | 14.55                                    | 14.57                                     | 14.69                           |                           |             |  |  |
| 5               | 256QAM     | 25         | 0            | 14.46                          | 14.39                                    | 14.41                                     | 14.56                           |                           |             |  |  |



| n2_Ant 0        |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 37000                | 37600                   | 38000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                 | 1880                    | 1900                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 1         | 22.91                | 23.02                   | 22.89                 |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 22.89                | 22.97                   | 22.92                 |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 22.97                | 23.01                   | 22.96                 |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.80                | 22.88                   | 22.77                 | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 28        | 22.85                | 22.95                   | 22.81                 | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.97                | 22.99                   | 22.87                 | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.86                | 22.93                   | 22.89                 |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.91                | 23.05                   | 22.94                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 22.86                | 23.01                   | 22.90                 |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.94                | 22.98                   | 22.88                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.81                | 22.86                   | 22.84                 |                     |          |  |
| 20              | QPSK       | 50      | 28        | 22.85                | 23.03                   | 22.90                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.83                | 22.94                   | 22.82                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 22.90                | 23.01                   | 22.90                 | 24.0                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 22.97                | 22.94                   | 22.82                 | 24.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 22.84                | 22.91                   | 22.78                 | 24.0                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 21.05                | 21.13                   | 21.03                 | 22.0                | 2.0      |  |
| Channel         |            |         |           | 37100                | 37600                   | 38000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1852.5               | 1880                    | 1882.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.81                | 22.95                   | 22.90                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371000               | 376000                  | 381000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1855                 | 1880                    | 1905                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.90                | 22.91                   | 22.82                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 370500               | 376000                  | 381500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1852.5               | 1880                    | 1907.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.87                | 22.92                   | 22.91                 | 24.0                | 0.0      |  |

| n2_Ant 1        |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 37000                | 37600                   | 38000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                 | 1880                    | 1900                  | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 1         | 15.73                | 15.80                   | 15.64                 |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 15.64                | 15.94                   | 15.73                 |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 15.64                | 15.78                   | 15.60                 |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 15.60                | 15.73                   | 15.74                 | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 28        | 15.71                | 15.75                   | 15.73                 | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 15.76                | 15.75                   | 15.65                 | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 15.60                | 15.67                   | 15.75                 |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.67                | 15.96                   | 15.84                 | 17.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 15.73                | 15.75                   | 15.75                 |                     |          |  |
| 20              | QPSK       | 1       | 104       | 15.72                | 15.81                   | 15.68                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 15.70                | 15.81                   | 15.63                 |                     |          |  |
| 20              | QPSK       | 50      | 28        | 15.61                | 15.85                   | 15.80                 | 17.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 15.68                | 15.84                   | 15.65                 | 17.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 15.73                | 15.78                   | 15.73                 | 17.0                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 15.72                | 15.82                   | 15.85                 | 17.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 15.68                | 15.80                   | 15.83                 | 17.0                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 15.79                | 15.79                   | 15.80                 | 17.0                | 0.0      |  |
| Channel         |            |         |           | 37100                | 37600                   | 38000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5               | 1880                    | 1882.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.71                | 15.88                   | 15.68                 | 17.0                | 0.0      |  |
| Channel         |            |         |           | 371000               | 376000                  | 381000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1855                 | 1880                    | 1905                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.66                | 15.73                   | 15.73                 | 17.0                | 0.0      |  |
| Channel         |            |         |           | 370500               | 376000                  | 381500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1852.5               | 1880                    | 1907.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 15.72                | 15.85                   | 15.74                 | 17.0                | 0.0      |  |

| n25_Ant 0       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 37000                | 37600                   | 37900                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1870                 | 1882.5                  | 1885                  | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 1         | 23.18                | 23.25                   | 23.14                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 23.16                | 23.21                   | 23.08                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 23.07                | 23.12                   | 23.05                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 23.13                | 23.16                   | 23.07                 | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 23.13                | 23.18                   | 23.07                 | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.99                | 23.14                   | 23.07                 | 24.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 23.10                | 23.21                   | 23.19                 |                     |          |  |
| 40              | QPSK       | 1       | 1         | 23.25                | 23.26                   | 23.24                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 23.17                | 23.22                   | 23.09                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 23.02                | 23.11                   | 22.98                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 23.17                | 23.21                   | 23.12                 |                     |          |  |
| 40              | QPSK       | 108     | 54        | 23.20                | 23.23                   | 23.17                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 23.01                | 23.16                   | 23.10                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 23.14                | 23.19                   | 23.11                 | 24.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 23.12                | 23.21                   | 23.06                 | 24.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 22.22                | 22.28                   | 22.13                 | 23.0                | 1.0      |  |
| 40              | 256QAM     | 1       | 1         | 20.27                | 20.38                   | 20.24                 | 21.0                | 3.0      |  |
| Channel         |            |         |           | 37200                | 37600                   | 37900                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1881.5               | 1882.5                  | 1887.5                |                     |          |  |
| 35              | QPSK       | 1       | 1         | 23.23                | 23.19                   | 23.13                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 375000               | 376000                  | 380000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                 | 1882.5                  | 1900                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.18                | 23.21                   | 23.22                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372500               | 376000                  | 380500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5               | 1882.5                  | 1902.5                |                     |          |  |
| 25              | QPSK       | 1       | 1         | 23.11                | 23.16                   | 23.10                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 372000               | 376000                  | 381000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1880                 | 1882.5                  | 1905                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.16                | 23.11                   | 23.09                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371500               | 376000                  | 381500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1881.5               | 1882.5                  | 1907.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.22                | 23.11                   | 23.14                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 371000               | 376000                  | 380000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                 | 1882.5                  | 1910                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.13                | 23.14                   | 23.12                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 370500               | 376000                  | 380500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5               | 1882.5                  | 1912.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.13                | 23.16                   | 23.16                 | 24.0                | 0.0      |  |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |          |  |
| Channel         |            |         |           | 375500                | 376500                   | 376500                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1895                   |                     |          |     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 18.12                 | 18.13                    | 15.95                  |                     | 17.0     | 0.0 |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 18.00                 | 18.06                    | 16.11                  |                     |          |     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 15.89                 | 16.06                    | 15.97                  |                     |          |     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 15.98                 | 16.02                    | 15.98                  | 17.0                |          |     | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 15.85                 | 16.01                    | 16.00                  | 17.0                |          |     | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 15.91                 | 16.00                    | 15.98                  | 17.0                |          |     | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 15.97                 | 16.07                    | 15.98                  |                     |          |     |          |  |
| 40              | QPSK       | 1       | 1         | 15.94                 | 16.18                    | 16.08                  |                     |          |     |          |  |
| 40              | QPSK       | 1       | 108       | 15.88                 | 16.08                    | 16.01                  | 17.0                |          |     | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 15.89                 | 15.96                    | 15.94                  |                     |          |     |          |  |
| 40              | QPSK       | 108     | 0         | 15.98                 | 16.00                    | 15.98                  | 17.0                |          |     | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 15.94                 | 16.10                    | 16.08                  | 17.0                |          |     | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 15.91                 | 16.03                    | 16.02                  | 17.0                |          |     | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 15.98                 | 15.99                    | 15.89                  |                     |          |     |          |  |
| 40              | 16QAM      | 1       | 1         | 15.97                 | 16.05                    | 16.05                  | 17.0                |          |     | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 15.98                 | 15.98                    | 16.02                  | 17.0                |          |     | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 15.92                 | 16.00                    | 16.03                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 375500                | 376500                   | 376500                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1882.5                   | 1897.5                 | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 35              | QPSK       | 1       | 1         | 15.87                 | 15.96                    | 16.05                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 375000                | 376500                   | 380000                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1865                  | 1882.5                   | 1900                   |                     |          |     |          |  |
| 30              | QPSK       | 1       | 1         | 15.81                 | 16.09                    | 15.90                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 372500                | 376500                   | 385500                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1882.5                   | 1902.5                 | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 15.83                 | 16.00                    | 16.03                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 15.92                 | 16.07                    | 15.99                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1897.5                 | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 15.81                 | 16.07                    | 16.05                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 15.93                 | 16.06                    | 15.98                  | 17.0                |          |     | 0.0      |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 |                     |          |     |          |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1882.5                   | 1912.5                 | Tune-up limit (dBm) |          |     | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 15.87                 | 15.99                    | 16.01                  | 17.0                |          |     | 0.0      |  |

| n66_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Channel         |            |         |           | 345000                | 349000                   | 355000                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.83                 | 22.93                    | 22.78                  | 24.0                | 0.0      |  |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 22.91                 | 22.92                    | 22.86                  |                     |          |  |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 22.80                 | 22.98                    | 22.95                  |                     |          |  |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 22.76                 | 22.88                    | 22.79                  | 24.0                |          |  | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 22.73                 | 22.86                    | 22.83                  | 24.0                |          |  | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 22.86                 | 22.87                    | 22.80                  | 24.0                |          |  | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 22.84                 | 22.92                    | 22.82                  | 24.0                |          |  | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 23.00                 | 23.01                    | 22.88                  |                     |          |  |          |  |
| 40              | QPSK       | 1       | 108       | 22.88                 | 22.97                    | 22.82                  | 24.0                |          |  |          |  |
| 40              | QPSK       | 1       | 214       | 22.84                 | 22.93                    | 22.78                  |                     |          |  |          |  |
| 40              | QPSK       | 108     | 0         | 22.74                 | 22.89                    | 22.82                  | 24.0                |          |  | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 22.83                 | 22.97                    | 22.83                  | 24.0                |          |  | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 22.81                 | 22.94                    | 22.81                  | 24.0                |          |  | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 22.93                 | 22.94                    | 22.89                  |                     |          |  |          |  |
| 40              | 16QAM      | 1       | 1         | 22.75                 | 22.88                    | 22.84                  | 24.0                |          |  | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 22.79                 | 22.84                    | 22.74                  | 24.0                |          |  | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 20.83                 | 20.87                    | 20.72                  | 22.0                |          |  | 2.0      |  |
| Channel         |            |         |           | 345500                | 349000                   | 352500                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1762.5                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 35              | QPSK       | 1       | 1         | 22.88                 | 22.90                    | 22.83                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |  |          |  |
| 30              | QPSK       | 1       | 1         | 22.88                 | 22.88                    | 22.89                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 22.86                 | 22.91                    | 22.75                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1719.5                | 1745                     | 1772.5                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 22.91                 | 22.95                    | 22.77                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1774.5                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 22.89                 | 22.97                    | 22.86                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 22.92                 | 22.87                    | 22.85                  | 24.0                |          |  | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 |                     |          |  |          |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 22.95                 | 22.92                    | 22.81                  | 24.0                |          |  | 0.0      |  |

| n66_Ant 1       |            |         |           |                      |                         |                       |                     |          |          |          |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|----------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |          |          |
| Channel         |            |         |           | 345000               | 349000                  | 350000                |                     |          |          |          |
| Frequency (MHz) |            |         |           | 1730                 | 1745                    | 1760                  |                     |          |          |          |
| 40              | PI2 BPSK   | 1       | 1         | 17.31                | 17.33                   | 17.36                 |                     | 18.5     | 0.0      |          |
| 40              | PI2 BPSK   | 1       | 108       | 17.17                | 17.24                   | 17.25                 |                     |          |          |          |
| 40              | PI2 BPSK   | 1       | 214       | 17.22                | 17.23                   | 17.21                 |                     |          |          |          |
| 40              | PI2 BPSK   | 108     | 0         | 17.26                | 17.17                   | 17.22                 | 18.5                |          |          |          |
| 40              | PI2 BPSK   | 108     | 54        | 17.21                | 17.25                   | 17.17                 | 18.5                |          |          |          |
| 40              | PI2 BPSK   | 108     | 108       | 17.20                | 17.30                   | 17.29                 | 18.5                | 0.0      |          |          |
| 40              | PI2 BPSK   | 216     | 0         | 17.19                | 17.20                   | 17.19                 |                     |          |          |          |
| 40              | QPSK       | 1       | 1         | 17.41                | 17.43                   | 17.39                 |                     |          |          |          |
| 40              | QPSK       | 1       | 108       | 17.18                | 17.41                   | 17.35                 | 18.5                | 0.0      |          |          |
| 40              | QPSK       | 1       | 214       | 17.19                | 17.28                   | 17.33                 |                     |          |          |          |
| 40              | QPSK       | 108     | 0         | 17.16                | 17.18                   | 17.16                 | 18.5                | 0.0      |          |          |
| 40              | QPSK       | 108     | 54        | 17.20                | 17.34                   | 17.31                 | 18.5                | 0.0      |          |          |
| 40              | QPSK       | 108     | 108       | 17.22                | 17.20                   | 17.24                 | 18.5                | 0.0      |          |          |
| 40              | QPSK       | 216     | 0         | 17.17                | 17.27                   | 17.23                 |                     |          |          |          |
| 40              | 16QAM      | 1       | 1         | 17.25                | 17.26                   | 17.18                 | 18.5                | 0.0      |          |          |
| 40              | 64QAM      | 1       | 1         | 17.13                | 17.22                   | 17.20                 | 18.5                | 0.0      |          |          |
| 40              | 256QAM     | 1       | 1         | 17.23                | 17.31                   | 17.24                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 345500               | 349000                  | 350500                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1721.5               | 1745                    | 1765.5                | Tune-up limit (dBm) |          |          |          |
| 35              | QPSK       | 1       | 1         | 17.18                | 17.33                   | 17.23                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 346000               | 349000                  | 353000                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1725                 | 1745                    | 1765                  | Tune-up limit (dBm) |          |          |          |
| 30              | QPSK       | 1       | 1         | 17.22                | 17.19                   | 17.23                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 346500               | 349000                  | 353500                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1722.5               | 1745                    | 1767.5                | Tune-up limit (dBm) |          |          |          |
| 25              | QPSK       | 1       | 1         | 17.23                | 17.23                   | 17.21                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 347000               | 349000                  | 354000                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1719.5               | 1745                    | 1772.5                | Tune-up limit (dBm) |          |          |          |
| 20              | QPSK       | 1       | 1         | 17.11                | 17.22                   | 17.22                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 347500               | 349000                  | 354500                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1717.5               | 1745                    | 1774.5                | Tune-up limit (dBm) |          |          |          |
| 15              | QPSK       | 1       | 1         | 17.19                | 17.22                   | 17.25                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 348000               | 349000                  | 355000                |                     |          |          | MPR (dB) |
| Frequency (MHz) |            |         |           | 1715                 | 1745                    | 1775                  | Tune-up limit (dBm) |          |          |          |
| 10              | QPSK       | 1       | 1         | 17.24                | 17.29                   | 17.26                 | 18.5                | 0.0      |          |          |
| Channel         |            |         |           | 348500               | 349000                  | 355500                |                     |          | MPR (dB) |          |
| Frequency (MHz) |            |         |           | 1712.5               | 1745                    | 1777.5                | Tune-up limit (dBm) |          |          |          |
| 5               | QPSK       | 1       | 1         | 17.13                | 17.21                   | 17.19                 | 18.5                | 0.0      |          |          |

| FCC_n41_Ant 10  |            |         |           |                        |                           |                         |                     |          |          |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------|----------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch./Freq. | Power Middle<br>Ch./Freq. | Power High<br>Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509022                 | 509028                    | 509030                  |                     |          |          |
| 100             | P12 BPSK   | 1       | 1         | 22.53                  | 22.69                     | 22.52                   |                     |          |          |
| 100             | P12 BPSK   | 1       | 137       | 22.61                  | 22.76                     | 22.65                   | 24.0                | 0.0      |          |
| 100             | P12 BPSK   | 1       | 271       | 22.67                  | 22.77                     | 22.62                   |                     |          |          |
| 100             | P12 BPSK   | 135     | 0         | 22.61                  | 22.75                     | 22.58                   | 24.0                | 0.0      |          |
| 100             | P12 BPSK   | 135     | 69        | 22.59                  | 22.82                     | 22.58                   | 24.0                | 0.0      |          |
| 100             | P12 BPSK   | 135     | 135       | 22.55                  | 22.70                     | 22.64                   |                     |          |          |
| 100             | P12 BPSK   | 270     | 0         | 22.64                  | 22.80                     | 22.62                   | 24.0                | 0.0      |          |
| 100             | QPSK       | 1       | 1         | 22.68                  | 22.83                     | 22.66                   |                     |          |          |
| 100             | QPSK       | 1       | 137       | 22.60                  | 22.72                     | 22.57                   |                     |          |          |
| 100             | QPSK       | 1       | 271       | 22.64                  | 22.75                     | 22.64                   |                     |          |          |
| 100             | QPSK       | 135     | 0         | 22.56                  | 22.70                     | 22.57                   |                     |          |          |
| 100             | QPSK       | 135     | 69        | 22.60                  | 22.78                     | 22.60                   | 24.0                | 0.0      |          |
| 100             | QPSK       | 135     | 138       | 22.60                  | 22.77                     | 22.56                   |                     |          |          |
| 100             | QPSK       | 270     | 0         | 22.57                  | 22.75                     | 22.61                   | 24.0                | 0.0      |          |
| 100             | 16QAM      | 1       | 1         | 22.60                  | 22.75                     | 22.56                   | 24.0                | 0.0      |          |
| 100             | 16QAM      | 1       | 1         | 22.43                  | 22.51                     | 22.34                   | 23.5                | 0.5      |          |
| 100             | 256QAM     | 1       | 1         | 21.18                  | 21.26                     | 21.19                   | 22.5                | 1.5      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509031                 | 509039                    | 509096                  |                     |          | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 22.57                  | 22.73                     | 22.56                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 507204                 | 509298                    | 509298                  |                     |          | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 22.58                  | 22.72                     | 22.63                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509002                 | 509008                    | 509100                  |                     |          | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 22.53                  | 22.78                     | 22.60                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509000                 | 509008                    | 509196                  |                     |          | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 22.35                  | 22.81                     | 22.62                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509024                 | 509030                    | 509096                  |                     |          | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 22.59                  | 22.78                     | 22.52                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509102                 | 509099                    | 509096                  |                     |          | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 22.58                  | 22.69                     | 22.62                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509100                 | 509099                    | 509096                  |                     |          | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 22.65                  | 22.68                     | 22.56                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509092                 | 509099                    | 509096                  |                     |          | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 22.61                  | 22.74                     | 22.65                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509070                 | 509099                    | 509096                  |                     |          | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 22.56                  | 22.72                     | 22.60                   | 24.0                | 0.0      |          |
| Channel         |            |         |           |                        |                           |                         |                     |          |          |
| Frequency (MHz) |            |         |           | 509022                 | 509098                    | 509096                  |                     |          | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 22.66                  | 22.70                     | 22.53                   | 24.0                | 0.0      |          |

| FCC_n41 HPUE_Ant 10 |            |         |           |                         |                            |                          |                        |             |  |
|---------------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq. | Power Middle<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel             |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)     |            |         |           | 5090202                 | 5090202                    | 5090200                  |                        |             |  |
| 100                 | P12 BPSK   | 1       | 1         | 24.57                   | 24.70                      | 24.44                    |                        |             |  |
| 100                 | P12 BPSK   | 1       | 137       | 24.59                   | 24.58                      | 24.54                    | 26.0                   | 0.0         |  |
| 100                 | P12 BPSK   | 1       | 271       | 24.64                   | 24.67                      | 24.49                    |                        |             |  |
| 100                 | P12 BPSK   | 135     | 0         | 24.13                   | 24.26                      | 24.14                    | 25.5                   | 0.5         |  |
| 100                 | P12 BPSK   | 135     | 69        | 24.56                   | 24.66                      | 24.50                    |                        |             |  |
| 100                 | P12 BPSK   | 135     | 138       | 24.11                   | 24.25                      | 24.05                    | 25.5                   | 0.5         |  |
| 100                 | P12 BPSK   | 270     | 0         | 24.24                   | 24.28                      | 24.06                    |                        |             |  |
| 100                 | QPSK       | 1       | 1         | 24.71                   | 24.78                      | 24.62                    |                        |             |  |
| 100                 | QPSK       | 1       | 137       | 24.64                   | 24.71                      | 24.61                    | 26.0                   | 0.0         |  |
| 100                 | QPSK       | 1       | 271       | 24.68                   | 24.68                      | 24.56                    |                        |             |  |
| 100                 | QPSK       | 135     | 0         | 23.87                   | 23.96                      | 23.79                    |                        |             |  |
| 100                 | QPSK       | 135     | 69        | 24.65                   | 24.73                      | 24.60                    |                        |             |  |
| 100                 | QPSK       | 135     | 138       | 24.05                   | 24.15                      | 23.98                    | 26.0                   | 0.0         |  |
| 100                 | QPSK       | 270     | 0         | 23.68                   | 23.82                      | 23.75                    | 25.0                   | 1.0         |  |
| 100                 | 16QAM      | 1       | 1         | 23.73                   | 23.93                      | 23.82                    | 25.0                   | 1.0         |  |
| 100                 | 16QAM      | 1       | 1         | 22.49                   | 22.91                      | 22.34                    | 23.5                   | 2.5         |  |
| 100                 | 256QAM     | 1       | 1         | 21.18                   | 21.26                      | 21.19                    | 22.5                   | 3.5         |  |
| Channel             |            |         |           | 5089900                 | 5100808                    | 5090900                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5090202                 | 5092202                    | 5090200                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 90                  | QPSK       | 1       | 1         | 24.59                   | 24.59                      | 24.49                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5070204                 | 5080204                    | 5069808                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5069802                 | 5089802                    | 5069800                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 80                  | QPSK       | 1       | 1         | 24.59                   | 24.70                      | 24.52                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5060002                 | 5100002                    | 5051000                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5051001                 | 5099999                    | 5050999                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 70                  | QPSK       | 1       | 1         | 24.62                   | 24.58                      | 24.50                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5030000                 | 5100000                    | 5031996                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5029999                 | 5099999                    | 5029998                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 60                  | QPSK       | 1       | 1         | 24.62                   | 24.62                      | 24.44                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5040004                 | 5100000                    | 5039996                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5039999                 | 5099999                    | 5039998                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 50                  | QPSK       | 1       | 1         | 24.55                   | 24.62                      | 24.44                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5010000                 | 5100000                    | 5009999                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5009999                 | 5099999                    | 5009999                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 40                  | QPSK       | 1       | 1         | 24.57                   | 24.70                      | 24.50                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5020000                 | 5100000                    | 5019999                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5019999                 | 5099999                    | 5019998                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 30                  | QPSK       | 1       | 1         | 24.54                   | 24.65                      | 24.44                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5010004                 | 5100000                    | 5009999                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5009999                 | 5099999                    | 5009999                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 20                  | QPSK       | 1       | 1         | 24.51                   | 24.62                      | 24.42                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5000000                 | 5100000                    | 5004996                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5004999                 | 5099999                    | 5004998                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 15                  | QPSK       | 1       | 1         | 24.60                   | 24.64                      | 24.54                    | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 5000002                 | 5100000                    | 5007000                  |                        |             |  |
| Frequency (MHz)     |            |         |           | 5006999                 | 5099999                    | 5006998                  | Tune-up limit (dBm)    | MPR<br>(dB) |  |
| 10                  | QPSK       | 1       | 1         | 24.51                   | 24.58                      | 24.55                    | 26.0                   | 0.0         |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 63332                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 1         | 16.94                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 131       | 16.97                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 17.06                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 17.07                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 17.09                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 135       | 17.07                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 17.11                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 17.19                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 131       | 17.14                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       | 17.13                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 17.01                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 17.13                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 135       | 17.05                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 17.05                 |                          |                        | 18.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63300                 | 63332                    | 63366                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3699.98                  | 3904.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 17.05                 | 17.05                    | 16.99                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63268                 | 63332                    | 63400                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3699.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 16.94                 | 17.00                    | 17.00                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63234                 | 63332                    | 63432                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3699.98                  | 3614.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 16.99                 | 17.03                    | 16.94                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63200                 | 63332                    | 63496                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3699.98                  | 3619.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 17.02                 | 17.04                    | 17.01                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63168                 | 63332                    | 63500                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3699.98                  | 3625                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 16.94                 | 17.05                    | 17.00                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63134                 | 63332                    | 63532                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3699.98                  | 3630                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 17.05                 | 17.03                    | 17.07                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63100                 | 63332                    | 63568                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465.01               | 3699.98                  | 3644.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 17.02                 | 17.05                    | 16.95                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63068                 | 63332                    | 63600                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3699.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 17.05                 | 17.05                    | 16.94                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63030                 | 63332                    | 63616                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3699.98                  | 3642.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 17.02                 | 17.01                    | 16.96                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 63034                 | 63332                    | 63632                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3699.98                  | 3644.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.97                  | 18.5                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750 3840 3930        |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 1         | 17.35                 | 17.36                    | 17.41                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 131       | 17.25                 | 17.39                    | 17.38                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 17.30                 | 17.33                    | 17.18                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 17.28                 | 17.34                    | 17.08                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 17.26                 | 17.32                    | 17.08                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 135       | 17.34                 | 17.22                    | 17.11                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 17.23                 | 17.32                    | 17.11                  | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 17.35                 | 17.43                    | 17.41                  | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 131       | 17.30                 | 17.31                    | 17.21                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 17.24                 | 17.28                    | 17.17                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 17.27                 | 17.28                    | 17.17                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 17.30                 | 17.33                    | 17.21                  |                     |          |  |
| 100               | QPSK       | 135     | 135       | 17.23                 | 17.31                    | 17.19                  | 18.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 17.25                 | 17.29                    | 17.15                  | 18.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 17.33                 | 17.25                    | 17.19                  | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 17.31                 | 17.28                    | 17.07                  | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 17.31                 | 17.28                    | 17.16                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64868                 | 65000                    | 66232                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 17.18                 | 17.21                    | 17.12                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64834                 | 65000                    | 66266                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 17.25                 | 17.18                    | 17.10                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64800                 | 65000                    | 66300                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 17.15                 | 17.21                    | 17.06                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64765                 | 65000                    | 66315                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3948.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 17.18                 | 17.20                    | 17.11                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64833                 | 65000                    | 66366                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 17.28                 | 17.31                    | 17.17                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64800                 | 65000                    | 66400                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 17.29                 | 17.19                    | 17.08                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64768                 | 65000                    | 66432                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.97                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 17.26                 | 17.32                    | 17.17                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64734                 | 65000                    | 66466                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 17.21                 | 17.30                    | 17.20                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64708                 | 65000                    | 66492                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 17.21                 | 17.23                    | 17.10                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 64700                 | 65000                    | 66500                  | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 17.28                 | 17.30                    | 17.19                  | 18.5                | 0.0      |  |

| Part27Q_n77 HPUE Ant 4 |            |         |           |                       |                          |                        |                     |          |  |      |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |      |          |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |      |          |  |
| Frequency (MHz)        |            |         |           | 63332                 | 64698                    |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 16.94                 |                          |                        |                     |          |  |      |          |  |
| 100                    | PI2 BPSK   | 1       | 131       | 16.97                 |                          |                        |                     |          |  |      |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 17.06                 |                          |                        |                     |          |  |      |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 17.07                 |                          |                        |                     |          |  |      |          |  |
| 100                    | PI2 BPSK   | 135     | 69        | 17.09                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | PI2 BPSK   | 135     | 135       | 17.07                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | PI2 BPSK   | 270     | 0         | 17.11                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | QPSK       | 1       | 1         | 17.19                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | QPSK       | 1       | 131       | 17.14                 |                          |                        |                     |          |  |      |          |  |
| 100                    | QPSK       | 1       | 271       | 17.13                 |                          |                        |                     |          |  |      |          |  |
| 100                    | QPSK       | 135     | 0         | 17.01                 |                          |                        |                     |          |  |      |          |  |
| 100                    | QPSK       | 135     | 69        | 17.13                 |                          |                        |                     |          |  |      |          |  |
| 100                    | QPSK       | 135     | 135       | 17.05                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | QPSK       | 270     | 0         | 17.05                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | 16QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | 64QAM      | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| 100                    | 256QAM     | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |      |          |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |      |          |  |
| Frequency (MHz)        |            |         |           | 63300                 | 63332                    | 63366                  | 18.5                | MPR (dB) |  |      |          |  |
| 90                     | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.99                  |                     |          |  | 18.5 | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 63268                 | 63302                    | 63400                  |                     |          |  | 18.5 | 0.0      |  |
| Frequency (MHz)        |            |         |           | 63482                 | 64008                    | 64010                  |                     |          |  | 18.5 | MPR (dB) |  |
| 90                     | QPSK       | 1       | 1         | 16.94                 | 17.00                    | 17.05                  |                     |          |  |      |          |  |
| 90                     | QPSK       | 1       | 1         | 63234                 | 63332                    | 63432                  | 18.5                | 0.0      |  |      |          |  |
| Frequency (MHz)        |            |         |           | 63451                 | 64098                    | 64148                  | 18.5                | MPR (dB) |  |      |          |  |
| 90                     | QPSK       | 1       | 1         | 16.90                 | 17.02                    | 16.94                  |                     |          |  |      |          |  |
| 90                     | QPSK       | 1       | 1         | 63200                 | 63332                    | 63466                  |                     |          |  | 18.5 | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3480                  | 34998                    | 35118                  |                     |          |  | 18.5 | MPR (dB) |  |
| 60                     | QPSK       | 1       | 1         | 17.02                 | 17.04                    | 17.01                  |                     |          |  |      |          |  |
| 60                     | QPSK       | 1       | 1         | 63166                 | 63332                    | 63500                  | 18.5                | 0.0      |  |      |          |  |
| Frequency (MHz)        |            |         |           | 3478.52               | 3499.98                  | 3520                   | 18.5                | MPR (dB) |  |      |          |  |
| 50                     | QPSK       | 1       | 1         | 16.94                 | 17.02                    | 17.00                  |                     |          |  |      |          |  |
| 50                     | QPSK       | 1       | 1         | 63134                 | 63332                    | 63532                  |                     |          |  | 18.5 | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3476.51               | 3499.98                  | 3520.98                |                     |          |  | 18.5 | MPR (dB) |  |
| 40                     | QPSK       | 1       | 1         | 17.00                 | 17.03                    | 17.07                  |                     |          |  |      |          |  |
| 40                     | QPSK       | 1       | 1         | 63100                 | 63332                    | 63596                  | 18.5                | 0.0      |  |      |          |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.99                | 18.5                | MPR (dB) |  |      |          |  |
| 30                     | QPSK       | 1       | 1         | 17.02                 | 17.02                    | 16.99                  |                     |          |  |      |          |  |
| 30                     | QPSK       | 1       | 1         | 63098                 | 63332                    | 63600                  |                     |          |  | 18.5 | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3460.92               | 3499.98                  | 3540                   |                     |          |  | 18.5 | MPR (dB) |  |
| 20                     | QPSK       | 1       | 1         | 17.00                 | 17.09                    | 16.94                  |                     |          |  |      |          |  |
| 20                     | QPSK       | 1       | 1         | 63090                 | 63332                    | 63616                  | 18.5                | 0.0      |  |      |          |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3545.49                | 18.5                | MPR (dB) |  |      |          |  |
| 15                     | QPSK       | 1       | 1         | 17.00                 | 17.01                    | 16.96                  |                     |          |  |      |          |  |
| 15                     | QPSK       | 1       | 1         | 63034                 | 63332                    | 63632                  |                     |          |  | 18.5 | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3456.91               | 3499.98                  | 3544.98                |                     |          |  | 18.5 | MPR (dB) |  |
| 10                     | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.97                  |                     |          |  |      |          |  |



| Part27O_n77 HPUE_Ant 4 |         |           |                    |                       |                     |                     |          |  |  |
|------------------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|--|--|
| Modulation             | RB Size | RB Offset | Power Low Ch./Freq | Power Middle Ch./Freq | Power High Ch./Freq | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 3750               | 3840                  | 3930                |                     |          |  |  |
| P12 BPSK               | 1       | 1         | 17.35              | 17.36                 | 17.41               |                     |          |  |  |
| P12 BPSK               | 1       | 137       | 17.25              | 17.36                 | 17.38               | 18.5                | 0.0      |  |  |
| P12 BPSK               | 1       | 271       | 17.30              | 17.33                 | 17.18               |                     |          |  |  |
| P12 BPSK               | 135     | 0         | 17.28              | 17.34                 | 17.68               | 18.5                | 0.0      |  |  |
| P12 BPSK               | 135     | 89        | 17.26              | 17.32                 | 17.68               | 18.5                | 0.0      |  |  |
| P12 BPSK               | 135     | 135       | 17.34              | 17.22                 | 17.11               | 18.5                | 0.0      |  |  |
| P12 BPSK               | 270     | 0         | 17.23              | 17.32                 | 17.11               |                     |          |  |  |
| QPSK                   | 1       | 1         | 17.35              | 17.43                 | 17.40               |                     |          |  |  |
| QPSK                   | 1       | 137       | 17.30              | 17.31                 | 17.21               | 18.5                | 0.0      |  |  |
| QPSK                   | 1       | 271       | 17.24              | 17.28                 | 17.17               |                     |          |  |  |
| QPSK                   | 135     | 0         | 17.27              | 17.28                 | 17.17               |                     |          |  |  |
| QPSK                   | 135     | 89        | 17.35              | 17.33                 | 17.21               | 18.5                | 0.0      |  |  |
| QPSK                   | 135     | 135       | 17.23              | 17.31                 | 17.15               | 18.5                | 0.0      |  |  |
| QPSK                   | 270     | 0         | 17.25              | 17.25                 | 17.15               | 18.5                | 0.0      |  |  |
| 16QAM                  | 1       | 1         | 17.33              | 17.25                 | 17.19               | 18.5                | 0.0      |  |  |
| 8QAM                   | 1       | 1         | 17.31              | 17.29                 | 17.67               | 18.5                | 0.0      |  |  |
| 256QAM                 | 1       | 1         | 17.31              | 17.28                 | 17.16               | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 64968              | 65600                 | 66232               | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 3743.02            | 3840                  | 3934.98             | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 649334             | 656000                | 662666              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 3740.01            | 3840                  | 3939.99             | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 649500             | 656000                | 663000              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 3735               | 3840                  | 3943                | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 3730.02            | 3840                  | 3949.98             | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 17.18              | 17.20                 | 17.11               | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 649334             | 656000                | 663996              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 17.28              | 17.31                 | 17.17               | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 649000             | 656000                | 664000              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 3729               | 3840                  | 3960                | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 647698             | 656000                | 664332              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 17.25              | 17.32                 | 17.17               | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 647334             | 656000                | 664668              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 3710.01            | 3840                  | 3969.99             | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 647188             | 656000                | 664932              | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 17.21              | 17.23                 | 17.10               | 18.5                | 0.0      |  |  |
| Channel                |         |           |                    |                       |                     |                     |          |  |  |
| Frequency (MHz)        |         |           |                    |                       |                     |                     |          |  |  |
|                        |         |           | 3705               | 3840                  | 3975                | Tune-up limit (dBm) | MPR (dB) |  |  |
| QPSK                   | 1       | 1         | 17.28              | 17.30                 | 17.19               | 18.5                | 0.0      |  |  |

| Part27Q_n77_Ant 7 |            |         |           |                    |                       |                     |                     |          |  |
|-------------------|------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch./Freq | Power Middle Ch./Freq | Power High Ch./Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 3489.98            |                       |                     |                     |          |  |
| 100               | P12 BPSK   | 1       | 1         | 22.95              |                       |                     |                     |          |  |
| 100               | P12 BPSK   | 1       | 137       | 23.15              |                       |                     | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 1       | 271       | 23.18              |                       |                     |                     |          |  |
| 100               | P12 BPSK   | 135     | 0         | 22.89              |                       |                     | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 89        | 23.10              |                       |                     | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 135       | 23.14              |                       |                     | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 270     | 0         | 23.03              |                       |                     |                     |          |  |
| 100               | QPSK       | 1       | 1         | 23.30              |                       |                     |                     |          |  |
| 100               | QPSK       | 1       | 137       | 23.17              |                       |                     | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 23.12              |                       |                     |                     |          |  |
| 100               | QPSK       | 135     | 0         | 22.90              |                       |                     |                     |          |  |
| 100               | QPSK       | 135     | 89        | 23.09              |                       |                     | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 135       | 23.02              |                       |                     |                     |          |  |
| 100               | QPSK       | 270     | 0         | 22.81              |                       |                     | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 23.03              |                       |                     | 24.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 23.11              |                       |                     | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 22.92              |                       |                     | 22.5                | 1.5      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 633000             | 633332                | 633666              | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 23.02              | 23.08                 | 23.16               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 3489.02            | 3489.98               | 3510                | Tune-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK       | 1       | 1         | 22.88              | 23.07                 | 23.12               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 3485.01            | 3489.98               | 3514.98             | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 22.87              | 23.04                 | 23.15               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 3480               | 3489.98               | 3519.99             | Tune-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK       | 1       | 1         | 22.94              | 22.94                 | 22.98               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 631969             | 633332                | 635000              | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 23.00              | 23.01                 | 23.13               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 631334             | 633332                | 635332              | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 22.92              | 23.03                 | 23.13               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 631000             | 633332                | 635966              | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 22.97              | 23.07                 | 23.01               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 630968             | 633332                | 636000              | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 22.88              | 22.99                 | 23.00               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 630500             | 633332                | 636168              | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 22.86              | 23.07                 | 23.00               | 24.0                | 0.0      |  |
| Channel           |            |         |           |                    |                       |                     |                     |          |  |
| Frequency (MHz)   |            |         |           |                    |                       |                     |                     |          |  |
|                   |            |         |           | 630334             | 633332                | 636235              | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | QPSK       | 1       | 1         | 22.91              | 22.94                 | 23.10               | 24.0                | 0.0      |  |

| Part27O_n77_Ant 7 |            |         |           |                     |                        |                      |                     |          |      |
|-------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 3750                | 3840                   | 3930                 |                     |          |      |
| 100               | P12 BPSK   | 1       | 1         | 23.27               | 23.03                  | 23.10                |                     |          |      |
| 100               | P12 BPSK   | 1       | 137       | 23.21               | 23.05                  | 23.10                | 24.0                | 0.0      |      |
| 100               | P12 BPSK   | 1       | 271       | 23.21               | 23.02                  | 23.05                |                     |          |      |
| 100               | P12 BPSK   | 135     | 0         | 23.17               | 23.06                  | 23.06                | 24.0                | 0.0      |      |
| 100               | P12 BPSK   | 135     | 89        | 23.22               | 22.98                  | 23.07                | 24.0                | 0.0      |      |
| 100               | P12 BPSK   | 135     | 135       | 23.23               | 22.99                  | 23.07                | 24.0                | 0.0      |      |
| 100               | P12 BPSK   | 270     | 0         | 23.23               | 23.03                  | 23.06                |                     |          |      |
| 100               | QPSK       | 1       | 1         | 23.28               | 23.05                  | 23.15                |                     |          |      |
| 100               | QPSK       | 1       | 137       | 23.20               | 22.98                  | 23.12                | 24.0                | 0.0      |      |
| 100               | QPSK       | 1       | 271       | 23.16               | 23.00                  | 23.05                |                     |          |      |
| 100               | QPSK       | 135     | 0         | 23.20               | 23.00                  | 23.04                |                     |          |      |
| 100               | QPSK       | 135     | 89        | 23.22               | 23.04                  | 23.05                | 24.0                | 0.0      |      |
| 100               | QPSK       | 135     | 135       | 23.21               | 23.00                  | 23.02                |                     |          |      |
| 100               | QPSK       | 270     | 0         | 23.22               | 22.98                  | 23.13                | 24.0                | 0.0      |      |
| 100               | 16QAM      | 1       | 1         | 23.20               | 22.98                  | 23.12                | 24.0                | 0.0      |      |
| 100               | 8QAM       | 1       | 1         | 23.06               | 23.00                  | 23.10                | 24.0                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         | 22.98               | 22.94                  | 22.92                | 22.5                | 1.5      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466968              | 656000                 | 663332               |                     |          |      |
|                   |            |         |           | 344540              | 384000                 | 391440               | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 23.18               | 23.04                  | 23.04                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466334              | 656000                 | 663696               |                     |          |      |
|                   |            |         |           | 346351              | 384000                 | 393399               | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 23.19               | 22.98                  | 23.10                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466900              | 656000                 | 663000               |                     |          |      |
|                   |            |         |           | 3751                | 3840                   | 3930                 | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 23.15               | 23.07                  | 23.01                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466698              | 656000                 | 663332               |                     |          |      |
|                   |            |         |           | 376332              | 3840                   | 3948.98              | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 23.07               | 23.02                  | 23.00                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466334              | 656000                 | 663696               |                     |          |      |
|                   |            |         |           | 344540              | 3840                   | 3954.98              | Tune-up limit (dBm) | MPR      | (dB) |
| 50                | QPSK       | 1       | 1         | 23.20               | 23.00                  | 23.14                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466500              | 656000                 | 664000               |                     |          |      |
|                   |            |         |           | 3752                | 3840                   | 3960                 | Tune-up limit (dBm) | MPR      | (dB) |
| 40                | QPSK       | 1       | 1         | 23.22               | 23.01                  | 23.06                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466332              | 656000                 | 663332               |                     |          |      |
|                   |            |         |           | 3751.92             | 3840                   | 3964.98              | Tune-up limit (dBm) | MPR      | (dB) |
| 30                | QPSK       | 1       | 1         | 23.13               | 22.98                  | 23.08                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 466500              | 656000                 | 664000               |                     |          |      |
|                   |            |         |           | 3710.91             | 3840                   | 3969.99              | Tune-up limit (dBm) | MPR      | (dB) |
| 20                | QPSK       | 1       | 1         | 23.20               | 23.02                  | 23.01                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 467188              | 656000                 | 664832               |                     |          |      |
|                   |            |         |           | 3472.82             | 3840                   | 3972.82              | Tune-up limit (dBm) | MPR      | (dB) |
| 15                | QPSK       | 1       | 1         | 23.23               | 23.02                  | 23.14                | 24.0                | 0.0      |      |
| Channel           |            |         |           |                     |                        |                      |                     |          |      |
|                   |            |         |           | 467400              | 656000                 | 665000               |                     |          |      |
|                   |            |         |           | 3678                | 3840                   | 3978                 | Tune-up limit (dBm) | MPR      | (dB) |
| 10                | QPSK       | 1       | 1         | 23.14               | 23.03                  | 23.02                | 24.0                | 0.0      |      |

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| NB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
|           | 633332                      | 3499.98                        |                              |                        |             |
| 1         | 22.95                       |                                |                              | 24.0                   | 0.0         |
| 137       | 23.13                       |                                |                              |                        |             |
| 271       | 23.18                       |                                |                              |                        |             |
| 0         | 22.89                       |                                |                              | 24.0                   | 0.0         |
| 69        | 23.19                       |                                |                              | 24.0                   | 0.0         |
| 138       | 23.14                       |                                |                              | 24.0                   | 0.0         |
| 0         | 23.03                       |                                |                              |                        |             |
| 1         | 23.25                       |                                |                              |                        |             |
| 137       | 23.17                       |                                |                              | 24.0                   | 0.0         |
| 271       | 23.12                       |                                |                              |                        |             |
| 0         | 22.90                       |                                |                              |                        |             |
| 69        | 23.09                       |                                |                              | 24.0                   | 0.0         |
| 138       | 23.02                       |                                |                              |                        |             |
| 0         | 22.81                       |                                |                              | 24.0                   | 0.0         |
| 1         | 23.03                       |                                |                              | 24.0                   | 0.0         |
| 1         | 23.11                       |                                |                              | 24.0                   | 0.0         |
| 1         | 22.92                       |                                |                              | 22.5                   | 1.5         |
|           | 633000                      | 633332                         | 633686                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 1         | 23.02                       | 23.03                          | 23.13                        | 24.0                   | 0.0         |
|           | 632686                      | 633332                         | 634000                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3490.02                     | 3499.98                        | 3510                         |                        |             |
| 1         | 22.88                       | 23.07                          | 23.12                        | 24.0                   | 0.0         |
|           | 632104                      | 633332                         | 634332                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
| 1         | 22.87                       | 23.04                          | 23.15                        | 24.0                   | 0.0         |
|           | 632100                      | 633332                         | 634500                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3480                        | 3499.98                        | 3519.99                      |                        |             |
| 1         | 22.94                       | 22.94                          | 22.98                        | 24.0                   | 0.0         |
|           | 631186                      | 633332                         | 635000                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3475.02                     | 3499.98                        | 3525                         |                        |             |
| 1         | 23.00                       | 23.01                          | 23.13                        | 24.0                   | 0.0         |
|           | 631334                      | 633332                         | 635332                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
| 1         | 22.92                       | 23.03                          | 23.13                        | 24.0                   | 0.0         |
|           | 631000                      | 633332                         | 635686                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 1         | 22.97                       | 23.07                          | 23.01                        | 24.0                   | 0.0         |
|           | 630686                      | 633332                         | 636000                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 1         | 22.82                       | 22.83                          | 22.83                        | 24.0                   | 0.0         |
|           | 630300                      | 633332                         | 636186                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3457.5                      | 3499.98                        | 3542.49                      |                        |             |
| 1         | 22.85                       | 23.07                          | 23.00                        | 24.0                   | 0.0         |
|           | 630104                      | 633332                         | 636332                       | Tune-up limit (dBm)    | MPR (dB)    |
|           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 1         | 22.91                       | 22.94                          | 23.10                        | 24.0                   | 0.0         |

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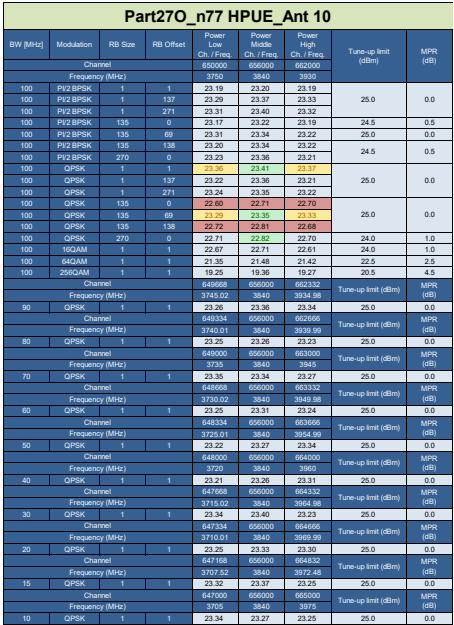
| BW [MHz] | Modulation      | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|----------|-----------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
|          | Channel         |         |           | 646000                      | 646000                         | 646000                       |                        |             |
|          | Frequency (MHz) |         |           | 3765                        | 3840                           | 3830                         |                        |             |
| 100      | PI2 BPSK        | 1       | 1         | 23.27                       | 23.03                          | 23.19                        | 24.0                   | 0.0         |
| 100      | PI2 BPSK        | 1       | 137       | 23.21                       | 23.00                          | 23.10                        |                        |             |
| 100      | PI2 BPSK        | 1       | 271       | 23.21                       | 23.02                          | 23.05                        |                        |             |
| 100      | PI2 BPSK        | 135     | 0         | 23.17                       | 23.06                          | 23.06                        | 24.0                   | 0.0         |
| 100      | PI2 BPSK        | 135     | 69        | 23.22                       | 22.98                          | 23.07                        | 24.0                   | 0.0         |
| 100      | PI2 BPSK        | 135     | 138       | 23.20                       | 22.99                          | 23.07                        | 24.0                   | 0.0         |
| 100      | PI2 BPSK        | 270     | 0         | 23.23                       | 23.03                          | 23.06                        |                        |             |
| 100      | QPSK            | 1       | 1         | 23.28                       | 23.09                          | 23.16                        |                        |             |
| 100      | QPSK            | 1       | 137       | 23.26                       | 22.98                          | 23.12                        | 24.0                   | 0.0         |
| 100      | QPSK            | 1       | 271       | 23.16                       | 23.00                          | 23.05                        |                        |             |
| 100      | QPSK            | 135     | 0         | 23.20                       | 23.00                          | 23.04                        |                        |             |
| 100      | QPSK            | 135     | 69        | 23.22                       | 23.04                          | 23.05                        | 24.0                   | 0.0         |
| 100      | QPSK            | 135     | 138       | 23.21                       | 23.01                          | 23.02                        | 24.0                   | 0.0         |
| 100      | QPSK            | 270     | 0         | 23.22                       | 22.98                          | 23.13                        |                        |             |
| 100      | 16QAM           | 1       | 1         | 23.20                       | 22.98                          | 23.12                        |                        |             |
| 100      | 64QAM           | 1       | 1         | 23.00                       | 23.00                          | 23.10                        | 24.0                   | 0.0         |
| 100      | 256QAM          | 1       | 1         | 23.38                       | 22.24                          | 22.02                        | 22.5                   | 1.5         |
|          | Channel         |         |           | 646686                      | 656000                         | 662332                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3743.02                     | 3840                           | 3934.98                      |                        |             |
| 80       | QPSK            | 1       | 1         | 23.18                       | 23.04                          | 23.04                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 649334                      | 656000                         | 662686                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3743.01                     | 3840                           | 3939.99                      |                        |             |
| 80       | QPSK            | 1       | 1         | 23.19                       | 22.98                          | 23.10                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 649000                      | 656000                         | 663000                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3735                        | 3840                           | 3945                         |                        |             |
| 70       | QPSK            | 1       | 1         | 23.15                       | 23.07                          | 23.01                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 648999                      | 656000                         | 663132                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3730.02                     | 3840                           | 3949.98                      |                        |             |
| 60       | QPSK            | 1       | 1         | 23.17                       | 23.05                          | 23.04                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 648334                      | 656000                         | 663686                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3723.01                     | 3840                           | 3954.98                      |                        |             |
| 50       | QPSK            | 1       | 1         | 23.20                       | 23.00                          | 23.14                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 648000                      | 656000                         | 664000                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3720                        | 3840                           | 3960                         |                        |             |
| 40       | QPSK            | 1       | 1         | 23.22                       | 23.01                          | 23.05                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 647668                      | 656000                         | 664332                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3711.02                     | 3840                           | 3961.49                      |                        |             |
| 30       | QPSK            | 1       | 1         | 23.13                       | 22.99                          | 23.08                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 647334                      | 656000                         | 664686                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3710.01                     | 3840                           | 3965.99                      |                        |             |
| 20       | QPSK            | 1       | 1         | 23.23                       | 23.02                          | 23.01                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 647168                      | 656000                         | 664932                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3707.52                     | 3840                           | 3972.48                      |                        |             |
| 15       | QPSK            | 1       | 1         | 23.23                       | 23.02                          | 23.14                        | 24.0                   | 0.0         |
|          | Channel         |         |           | 647000                      | 656000                         | 665000                       | Tune-up limit (dBm)    | MPR (dB)    |
|          | Frequency (MHz) |         |           | 3705                        | 3840                           | 3975                         |                        |             |
| 10       | QPSK            | 1       | 1         | 23.14                       | 23.03                          | 23.02                        | 24.0                   | 0.0         |



| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 633332                | 3499.98                  |                        | 23.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 21.88                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 137       | 21.78                 | 21.88                    | 21.94                  |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       | 21.98                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         | 21.97                 |                          |                        | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        | 22.00                 |                          |                        | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 135       | 22.08                 |                          |                        | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         | 22.03                 |                          |                        | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 22.16                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       | 21.96                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 271       | 22.00                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 22.00                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 69        | 22.00                 |                          |                        | 23.0                | 0.0      |  |
| 100                | QPSK       | 135     | 135       | 22.08                 |                          |                        | 23.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 22.08                 |                          |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 21.99                 |                          |                        |                     |          |  |
| 100                | 64QAM      | 1       | 1         | 21.78                 |                          |                        |                     | 0.5      |  |
| 100                | 256QAM     | 1       | 1         | 19.63                 |                          |                        |                     | 20.5     |  |
| Channel            |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                 | QPSK       | 1       | 1         | 21.87                 | 22.05                    | 22.01                  |                     |          |  |
| Channel            |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 22.04                 | 21.97                    | 21.98                  |                     |          |  |
| Channel            |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                 | QPSK       | 1       | 1         | 22.03                 | 21.84                    | 22.02                  |                     |          |  |
| Channel            |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 22.01                 | 22.07                    | 22.00                  |                     |          |  |
| Channel            |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                 | QPSK       | 1       | 1         | 22.00                 | 21.93                    | 21.93                  |                     |          |  |
| Channel            |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                 | QPSK       | 1       | 1         | 22.01                 | 22.04                    | 21.96                  |                     |          |  |
| Channel            |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                 | QPSK       | 1       | 1         | 22.02                 | 21.96                    | 22.04                  |                     |          |  |
| Channel            |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                 | QPSK       | 1       | 1         | 22.01                 | 21.97                    | 22.03                  |                     |          |  |
| Channel            |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                 | QPSK       | 1       | 1         | 21.88                 | 22.05                    | 22.04                  |                     |          |  |
| Channel            |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                 | QPSK       | 1       | 1         | 22.00                 | 21.94                    | 22.01                  |                     |          |  |

| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 660000                | 660600                   | 660900                 | 23.0                | 0.0      |  |
| Frequency (MHz)    |            |         |           | 3760                  | 3840                     | 3930                   |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 21.73                 | 21.85                    | 21.77                  |                     |          |  |
| 100                | PI2 BPSK   | 1       | 137       | 21.78                 | 21.85                    | 21.84                  |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       | 21.77                 | 21.83                    | 21.70                  |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         | 21.85                 | 21.87                    | 21.85                  | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        | 21.85                 | 21.85                    | 21.83                  | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 135       | 21.91                 | 22.03                    | 21.90                  | 23.0                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         | 21.85                 | 22.00                    | 21.88                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 22.03                 | 22.13                    | 22.04                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 21.72                 | 21.86                    | 21.86                  |                     |          |  |
| 100                | QPSK       | 1       | 271       | 21.85                 | 21.92                    | 21.78                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 21.86                 | 21.92                    | 21.78                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 21.93                 | 22.03                    | 21.91                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 135     | 135       | 21.92                 | 21.96                    | 21.86                  | 23.0                | 0.0      |  |
| 100                | QPSK       | 270     | 0         | 21.87                 | 22.02                    | 21.95                  |                     |          |  |
| 100                | 16QAM      | 1       | 1         | 21.83                 | 21.87                    | 21.72                  |                     | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 21.16                 | 21.24                    | 21.16                  |                     | 0.5      |  |
| 100                | 256QAM     | 1       | 1         | 19.39                 | 19.34                    | 19.25                  |                     | 20.5     |  |
| Channel            |            |         |           | 649666                | 660600                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                 | QPSK       | 1       | 1         | 21.89                 | 21.89                    | 21.80                  |                     |          |  |
| Channel            |            |         |           | 649334                | 660600                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                 | QPSK       | 1       | 1         | 21.91                 | 21.80                    | 21.83                  |                     |          |  |
| Channel            |            |         |           | 649000                | 660600                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                 | QPSK       | 1       | 1         | 21.82                 | 21.89                    | 21.84                  |                     |          |  |
| Channel            |            |         |           | 648700                | 660600                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                 | QPSK       | 1       | 1         | 21.92                 | 21.98                    | 21.76                  |                     |          |  |
| Channel            |            |         |           | 648334                | 660600                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                 | QPSK       | 1       | 1         | 21.83                 | 21.90                    | 21.81                  |                     |          |  |
| Channel            |            |         |           | 648000                | 660600                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                 | QPSK       | 1       | 1         | 21.92                 | 22.01                    | 21.89                  |                     |          |  |
| Channel            |            |         |           | 647666                | 660600                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                 | QPSK       | 1       | 1         | 21.89                 | 21.95                    | 21.89                  |                     |          |  |
| Channel            |            |         |           | 647334                | 660600                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                 | QPSK       | 1       | 1         | 21.87                 | 21.89                    | 21.83                  |                     |          |  |
| Channel            |            |         |           | 647166                | 660600                   | 664932                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                 | QPSK       | 1       | 1         | 21.84                 | 21.87                    | 21.80                  |                     |          |  |
| Channel            |            |         |           | 647000                | 660600                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                 | QPSK       | 1       | 1         | 21.84                 | 21.90                    | 21.87                  |                     |          |  |

| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |      |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|------|--|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | 25.0                | 0.0      |  |      |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |      |  |
| 100                     | PI2 BPSK   | 1       | 1         | 24.03                 |                          |                        |                     |          |  |      |  |
| 100                     | PI2 BPSK   | 1       | 137       | 23.96                 |                          |                        |                     |          |  |      |  |
| 100                     | PI2 BPSK   | 1       | 271       | 23.23                 |                          |                        |                     |          |  |      |  |
| 100                     | PI2 BPSK   | 135     | 0         | 23.95                 |                          |                        | 24.5                | 0.5      |  |      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 23.91                 |                          |                        | 25.0                | 0.0      |  |      |  |
| 100                     | PI2 BPSK   | 135     | 135       | 23.03                 |                          |                        | 24.5                | 0.5      |  |      |  |
| 100                     | PI2 BPSK   | 270     | 0         | 23.92                 |                          |                        | 25.0                | 0.0      |  |      |  |
| 100                     | QPSK       | 1       | 1         | 24.13                 |                          |                        |                     |          |  |      |  |
| 100                     | QPSK       | 1       | 137       | 23.91                 |                          |                        |                     |          |  |      |  |
| 100                     | QPSK       | 1       | 271       | 22.91                 |                          |                        |                     |          |  |      |  |
| 100                     | QPSK       | 135     | 0         | 23.92                 |                          |                        |                     |          |  |      |  |
| 100                     | QPSK       | 135     | 69        | 23.46                 |                          |                        | 25.0                | 0.0      |  |      |  |
| 100                     | QPSK       | 135     | 135       | 22.20                 |                          |                        | 24.0                | 1.0      |  |      |  |
| 100                     | QPSK       | 270     | 0         | 22.72                 |                          |                        |                     |          |  |      |  |
| 100                     | 16QAM      | 1       | 1         | 23.22                 |                          |                        |                     |          |  | 22.5 |  |
| 100                     | 64QAM      | 1       | 1         | 21.71                 |                          |                        |                     |          |  | 20.5 |  |
| 100                     | 256QAM     | 1       | 1         | 18.64                 |                          |                        |                     |          |  | 20.5 |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 90                      | QPSK       | 1       | 1         | 24.03                 | 24.07                    | 23.98                  |                     |          |  |      |  |
| Channel                 |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 80                      | QPSK       | 1       | 1         | 24.02                 | 23.99                    | 24.11                  |                     |          |  |      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 70                      | QPSK       | 1       | 1         | 24.12                 | 24.02                    | 24.04                  |                     |          |  |      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 60                      | QPSK       | 1       | 1         | 24.08                 | 24.04                    | 23.99                  |                     |          |  |      |  |
| Channel                 |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 50                      | QPSK       | 1       | 1         | 24.06                 | 23.98                    | 24.07                  |                     |          |  |      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 40                      | QPSK       | 1       | 1         | 23.99                 | 24.06                    | 24.08                  |                     |          |  |      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 30                      | QPSK       | 1       | 1         | 24.10                 | 24.08                    | 24.05                  |                     |          |  |      |  |
| Channel                 |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 20                      | QPSK       | 1       | 1         | 23.99                 | 24.02                    | 24.10                  |                     |          |  |      |  |
| Channel                 |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 15                      | QPSK       | 1       | 1         | 24.06                 | 23.98                    | 24.05                  |                     |          |  |      |  |
| Channel                 |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |      |  |
| 10                      | QPSK       | 1       | 1         | 24.11                 | 24.00                    | 23.99                  |                     |          |  |      |  |



| Part27Q n77_Ant 8 |            |          |            |                      |                         |                       |                    |          |  |
|-------------------|------------|----------|------------|----------------------|-------------------------|-----------------------|--------------------|----------|--|
| BW [MHz]          | Modulation | RIS Size | RIS Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dB) | MFR (dB) |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 100               | P25 BPSK   | 1        | 1          | 14.08                |                         |                       |                    |          |  |
| 100               | P25 BPSK   | 1        | 137        | 14.30                |                         |                       | 15.5               | 0.0      |  |
| 100               | P25 BPSK   | 1        | 271        | 14.35                |                         |                       |                    |          |  |
| 100               | P25 BPSK   | 136      | 0          | 14.34                |                         |                       | 15.5               | 0.0      |  |
| 100               | P25 BPSK   | 135      | 69         | 14.32                |                         |                       | 15.5               | 0.0      |  |
| 100               | P25 BPSK   | 135      | 138        | 14.32                |                         |                       | 15.5               | 0.0      |  |
| 100               | P25 BPSK   | 270      | 0          | 14.33                |                         |                       | 15.5               | 0.0      |  |
| 100               | QPSK       | 1        | 1          | 14.27                |                         |                       |                    |          |  |
| 100               | QPSK       | 1        | 137        | 14.29                |                         |                       | 15.5               | 0.0      |  |
| 100               | QPSK       | 1        | 271        | 14.28                |                         |                       |                    |          |  |
| 100               | QPSK       | 136      | 0          | 14.30                |                         |                       |                    |          |  |
| 100               | QPSK       | 135      | 69         | 14.33                |                         |                       | 15.5               | 0.0      |  |
| 100               | QPSK       | 135      | 138        | 14.34                |                         |                       | 15.5               | 0.0      |  |
| 100               | QPSK       | 270      | 0          | 14.34                |                         |                       | 15.5               | 0.0      |  |
| 100               | 16QAM      | 1        | 1          | 14.30                |                         |                       | 15.5               | 0.0      |  |
| 100               | 16QAM      | 1        | 137        | 14.29                |                         |                       | 15.5               | 0.0      |  |
| 100               | 256QAM     | 1        | 1          | 14.30                |                         |                       | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 90                | QPSK       | 1        | 1          | 14.30                | 14.22                   | 14.26                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 80                | QPSK       | 1        | 1          | 14.30                | 14.33                   | 14.34                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 80                | QPSK       | 1        | 1          | 14.29                | 14.25                   | 14.28                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 70                | QPSK       | 1        | 1          | 14.29                | 14.22                   | 14.26                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 60                | QPSK       | 1        | 1          | 14.29                | 14.21                   | 14.23                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 50                | QPSK       | 1        | 1          | 14.27                | 14.20                   | 14.23                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 40                | QPSK       | 1        | 1          | 14.23                | 14.15                   | 14.20                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 30                | QPSK       | 1        | 1          | 14.31                | 14.22                   | 14.31                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 20                | QPSK       | 1        | 1          | 14.29                | 14.21                   | 14.19                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 15                | QPSK       | 1        | 1          | 14.29                | 14.20                   | 14.20                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 10                | QPSK       | 1        | 1          | 14.27                | 14.14                   | 14.31                 | 15.5               | 0.0      |  |
| Channel           |            |          |            |                      |                         |                       |                    |          |  |
| Frequency (MHz)   |            |          |            |                      |                         |                       |                    |          |  |
| 10                | QPSK       | 1        | 1          | 14.20                | 14.22                   | 14.30                 | 15.5               | 0.0      |  |

| Part270 n77_Ant 8 |                 |         |           |                         |                          |                         |                          |                    |          |
|-------------------|-----------------|---------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------|----------|
| Bit/ (MHz)        | Modulation      | RB Size | RB Offset | Power Low<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Power Low<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Turn-up time (dBm) | MPR (dB) |
| Frequency (MHz)   |                 |         |           |                         |                          |                         |                          |                    |          |
| 100               | P12 BPSK        | 1       | 1         | 14.12                   | 14.16                    | 14.07                   |                          |                    |          |
| 100               | P12 BPSK        | 137     | 1         | 13.86                   | 14.01                    | 14.12                   | 14.12                    | 15.5               | 0.0      |
| 100               | P12 BPSK        | 1       | 221       | 14.08                   | 14.21                    | 14.12                   |                          |                    |          |
| 100               | P12 BPSK        | 136     | 0         | 14.05                   | 14.28                    | 14.17                   | 15.5                     | 0.0                |          |
| 100               | P12 BPSK        | 135     | 69        | 14.08                   | 14.19                    | 14.10                   | 15.5                     | 0.0                |          |
| 100               | P12 BPSK        | 135     | 138       | 13.97                   | 14.20                    | 14.10                   | 15.5                     | 0.0                |          |
| 100               | P12 BPSK        | 270     | 0         | 14.03                   | 14.16                    | 14.07                   | 15.5                     | 0.0                |          |
| 100               | QPSK            | 1       | 1         | 14.12                   | 14.29                    | 14.18                   |                          |                    |          |
| 100               | QPSK            | 137     | 1         | 13.86                   | 14.01                    | 14.12                   | 14.12                    | 15.5               | 0.0      |
| 100               | QPSK            | 1       | 221       | 14.01                   | 14.16                    | 14.08                   |                          |                    |          |
| 100               | QPSK            | 135     | 0         | 13.95                   | 14.21                    | 14.08                   |                          |                    |          |
| 100               | QPSK            | 135     | 69        | 14.01                   | 14.19                    | 14.10                   | 15.5                     | 0.0                |          |
| 100               | QPSK            | 135     | 138       | 13.89                   | 14.15                    | 14.10                   | 15.5                     | 0.0                |          |
| 100               | QPSK            | 270     | 0         | 14.08                   | 14.19                    | 14.08                   | 15.5                     | 0.0                |          |
| 100               | 16QAM           | 1       | 1         | 14.03                   | 14.17                    | 14.12                   | 15.5                     | 0.0                |          |
| 100               | 16QAM           | 1       | 14.01     | 14.22                   | 14.12                    | 14.10                   | 15.5                     | 0.0                |          |
| 100               | 256QAM          | 1       | 1         | 14.03                   | 14.18                    | 14.12                   | 15.5                     | 0.0                |          |
| Channel           |                 |         |           |                         |                          |                         |                          |                    |          |
|                   |                 |         |           | 649566                  | 665000                   | 665332                  |                          |                    |          |
|                   | Frequency (MHz) |         |           | 3849                    | 3854                     | 3854.88                 |                          | Turn-up time (dBm) | MPR      |
| 90                | QPSK            | 1       | 1         | 14.07                   | 14.24                    | 14.09                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 649334                  | 665000                   | 665266                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 716211                  | 3816                     | 3853.89                 |                          | 15.5               | 0.0      |
| 80                | QPSK            | 1       | 1         | 14.07                   | 14.11                    | 14.08                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 649000                  | 665000                   | 665300                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3725                    | 3849                     | 3854.15                 |                          | 15.5               | 0.0      |
| 70                | QPSK            | 1       | 1         | 13.87                   | 14.13                    | 14.15                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 648896                  | 665000                   | 665332                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3730.52                 | 3849                     | 3849.58                 |                          | 15.5               | 0.0      |
| 60                | QPSK            | 1       | 1         | 14.17                   | 14.22                    | 14.17                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 648634                  | 665000                   | 665366                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3725.01                 | 3849                     | 3854.19                 |                          | 15.5               | 0.0      |
| 50                | QPSK            | 1       | 1         | 14.04                   | 14.17                    | 14.10                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 648500                  | 665000                   | 665500                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3720                    | 3849                     | 3863                    |                          | Turn-up time (dBm) | MPR      |
| 40                | QPSK            | 1       | 1         | 13.86                   | 14.15                    | 14.16                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 647708                  | 665000                   | 665332                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3715.02                 | 3849                     | 3864.98                 |                          | 15.5               | 0.0      |
| 30                | QPSK            | 1       | 1         | 13.94                   | 14.24                    | 14.10                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 647114                  | 665000                   | 665596                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3710.01                 | 3849                     | 3869.99                 |                          | 15.5               | 0.0      |
| 20                | QPSK            | 1       | 1         | 14.00                   | 14.23                    | 14.09                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 647198                  | 665000                   | 664892                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3707.52                 | 3849                     | 3872.48                 |                          | 15.5               | 0.0      |
| 15                | QPSK            | 1       | 1         | 14.01                   | 14.20                    | 14.16                   | 15.5                     | 0.0                |          |
|                   | Channel         |         |           | 647050                  | 665000                   | 665000                  |                          | Turn-up time (dBm) | MPR      |
|                   | Frequency (MHz) |         |           | 3694                    | 3849                     | 3894                    |                          | 15.5               | 0.0      |
| 10                | QPSK            | 1       | 1         | 13.97                   | 14.12                    | 14.19                   | 15.5                     | 0.0                |          |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Mid Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel         |            |         |           |                     |                     |                      |                     |          |
| Frequency (MHz) |            |         |           | 633332              |                     | 3498.98              | 15.5                | 0.0      |
| 100             | P12 BPSK   | 1       | 1         | 14.08               |                     |                      |                     |          |
| 100             | P12 BPSK   | 1       | 137       | 14.30               |                     |                      |                     |          |
| 100             | P12 BPSK   | 1       | 271       | 14.35               |                     |                      |                     |          |
| 100             | P12 BPSK   | 135     | 0         | 14.34               |                     |                      | 15.5                | 0.0      |
| 100             | P12 BPSK   | 135     | 69        | 14.32               |                     |                      | 15.5                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       | 14.38               |                     |                      | 15.5                | 0.0      |
| 100             | P12 BPSK   | 270     | 0         | 14.33               |                     |                      | 15.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 14.47               |                     |                      | 15.5                | 0.0      |
| 100             | QPSK       | 1       | 137       | 14.29               |                     |                      |                     |          |
| 100             | QPSK       | 1       | 271       | 14.29               |                     |                      |                     |          |
| 100             | QPSK       | 135     | 0         | 14.30               |                     |                      |                     |          |
| 100             | QPSK       | 135     | 69        | 14.41               |                     |                      | 15.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 14.32               |                     |                      | 15.5                | 0.0      |
| 100             | QPSK       | 270     | 0         | 14.34               |                     |                      | 15.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 14.30               |                     |                      | 15.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 14.28               |                     |                      | 15.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 14.26               |                     |                      | 15.5                | 0.0      |
| Channel         |            |         |           |                     |                     |                      |                     |          |
| Frequency (MHz) |            |         |           | 633900              | 633932              | 633966               | 15.5                | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 14.09               |                     | 14.20                |                     |          |
| Frequency (MHz) |            |         |           | 632968              | 633932              | 634000               |                     |          |
| 90              | QPSK       | 1       | 1         | 14.20               |                     | 14.29                |                     |          |
| Frequency (MHz) |            |         |           | 632400              | 3498.98             | 3510                 | 15.5                | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 14.23               |                     | 14.23                |                     |          |
| Channel         |            |         |           | 632334              | 633332              | 634332               |                     |          |
| 80              | QPSK       | 1       | 1         | 14.23               |                     | 14.23                |                     |          |
| Frequency (MHz) |            |         |           | 3488.51             | 3498.98             | 3514.68              | 15.5                | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 14.20               |                     | 14.24                |                     |          |
| Channel         |            |         |           | 632000              | 633332              | 634666               |                     |          |
| 70              | QPSK       | 1       | 1         | 14.20               |                     | 14.24                |                     |          |
| Frequency (MHz) |            |         |           | 3480                | 3498.98             | 3519.99              | 15.5                | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 14.25               |                     | 14.28                |                     |          |
| Channel         |            |         |           | 631968              | 633332              | 635000               |                     |          |
| 60              | QPSK       | 1       | 1         | 14.25               |                     | 14.28                |                     |          |
| Frequency (MHz) |            |         |           | 3475.02             | 3498.98             | 3525                 | 15.5                | 0.0      |
| 50              | QPSK       | 1       | 1         | 14.23               |                     | 14.26                |                     |          |
| Channel         |            |         |           | 631834              | 633332              | 635832               |                     |          |
| 50              | QPSK       | 1       | 1         | 14.23               |                     | 14.26                |                     |          |
| Frequency (MHz) |            |         |           | 3470.51             | 3498.98             | 3529.98              | 15.5                | 0.0      |
| 40              | QPSK       | 1       | 1         | 14.33               |                     | 14.21                |                     |          |
| Channel         |            |         |           | 631700              | 633332              | 636566               |                     |          |
| 40              | QPSK       | 1       | 1         | 14.33               |                     | 14.21                |                     |          |
| Frequency (MHz) |            |         |           | 3465                | 3498.98             | 3534.99              | 15.5                | 0.0      |
| 30              | QPSK       | 1       | 1         | 14.29               |                     | 14.21                |                     |          |
| Channel         |            |         |           | 631500              | 633332              | 636900               |                     |          |
| 30              | QPSK       | 1       | 1         | 14.29               |                     | 14.21                |                     |          |
| Frequency (MHz) |            |         |           | 3460.02             | 3498.98             | 3540                 | 15.5                | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 14.19               |                     | 14.20                |                     |          |
| Channel         |            |         |           | 631300              | 633332              | 636866               |                     |          |
| 20              | QPSK       | 1       | 1         | 14.19               |                     | 14.20                |                     |          |
| Frequency (MHz) |            |         |           | 3455.51             | 3498.98             | 3542.98              | 15.5                | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 14.27               |                     | 14.19                |                     |          |
| Channel         |            |         |           | 631034              | 633332              | 636932               |                     |          |
| 15              | QPSK       | 1       | 1         | 14.27               |                     | 14.19                |                     |          |
| Frequency (MHz) |            |         |           | 3451.01             | 3498.98             | 3544.98              | 15.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 14.20               |                     | 14.22                |                     |          |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           |                     |                        |                      |                     |          |
| Frequency (MHz) |            |         |           | 3750                | 3840                   | 3930                 | 15.5                | 0.0      |
| 100             | P12 BPSK   | 1       | 1         | 14.12               | 14.16                  | 14.07                |                     |          |
| 100             | P12 BPSK   | 1       | 137       | 13.96               | 14.19                  | 14.12                |                     |          |
| 100             | P12 BPSK   | 1       | 271       | 14.06               | 14.12                  | 14.12                |                     |          |
| 100             | P12 BPSK   | 135     | 0         | 14.05               | 14.26                  | 14.17                | 15.5                | 0.0      |
| 100             | P12 BPSK   | 135     | 69        | 14.08               | 14.19                  | 14.19                | 15.5                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       | 13.98               | 14.20                  | 14.12                | 15.5                | 0.0      |
| 100             | P12 BPSK   | 270     | 0         | 14.03               | 14.15                  | 14.07                | 15.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 14.12               | 14.29                  | 14.18                | 15.5                | 0.0      |
| 100             | QPSK       | 1       | 137       | 13.99               | 14.18                  | 14.16                |                     |          |
| 100             | QPSK       | 1       | 271       | 14.01               | 14.15                  | 14.08                |                     |          |
| 100             | QPSK       | 135     | 0         | 13.95               | 14.21                  | 14.08                |                     |          |
| 100             | QPSK       | 135     | 69        | 14.05               | 14.25                  | 14.20                | 15.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 13.99               | 14.15                  | 14.10                | 15.5                | 0.0      |
| 100             | QPSK       | 270     | 0         | 14.08               | 14.15                  | 14.08                | 15.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 14.03               | 14.17                  | 14.12                | 15.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 14.01               | 14.22                  | 14.18                | 15.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 14.03               | 14.28                  | 14.12                | 15.5                | 0.0      |
| Channel         |            |         |           |                     |                        |                      |                     |          |
| Frequency (MHz) |            |         |           | 649608              | 649600                 | 649632               | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 14.07               | 14.24                  | 14.09                |                     |          |
| Frequency (MHz) |            |         |           | 649402              | 649600                 | 649696               |                     |          |
| 90              | QPSK       | 1       | 1         | 14.07               | 14.11                  | 14.09                |                     |          |
| Frequency (MHz) |            |         |           | 649300              | 649600                 | 649900               | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 14.07               | 14.14                  | 14.12                |                     |          |
| Frequency (MHz) |            |         |           | 649100              | 649600                 | 650000               |                     |          |
| 80              | QPSK       | 1       | 1         | 14.07               | 14.13                  | 14.15                |                     |          |
| Frequency (MHz) |            |         |           | 648900              | 649600                 | 650332               | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 13.97               | 14.13                  | 14.15                |                     |          |
| Frequency (MHz) |            |         |           | 648658              | 649600                 | 650332               |                     |          |
| 70              | QPSK       | 1       | 1         | 14.07               | 14.22                  | 14.14                |                     |          |
| Frequency (MHz) |            |         |           | 648434              | 649600                 | 650466               | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 14.04               | 14.17                  | 14.16                |                     |          |
| Frequency (MHz) |            |         |           | 648200              | 649600                 | 650466               |                     |          |
| 60              | QPSK       | 1       | 1         | 13.95               | 14.15                  | 14.18                |                     |          |
| Frequency (MHz) |            |         |           | 647968              | 649600                 | 650932               | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 14.04               | 14.17                  | 14.16                |                     |          |
| Frequency (MHz) |            |         |           | 647734              | 649600                 | 650932               |                     |          |
| 50              | QPSK       | 1       | 1         | 13.96               | 14.15                  | 14.18                |                     |          |
| Frequency (MHz) |            |         |           | 647502              | 649600                 | 651466               | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 13.96               | 14.14                  | 14.18                |                     |          |
| Frequency (MHz) |            |         |           | 647268              | 649600                 | 651932               |                     |          |
| 40              | QPSK       | 1       | 1         | 13.94               | 14.24                  | 14.19                |                     |          |
| Frequency (MHz) |            |         |           | 647034              | 649600                 | 652466               | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 13.94               | 14.24                  | 14.19                |                     |          |
| Frequency (MHz) |            |         |           | 646800              | 649600                 | 652932               |                     |          |
| 30              | QPSK       | 1       | 1         | 13.90               | 14.15                  | 14.18                |                     |          |
| Frequency (MHz) |            |         |           | 646568              | 649600                 | 653466               | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 14.00               | 14.23                  | 14.09                |                     |          |
| Frequency (MHz) |            |         |           | 646334              | 649600                 | 653932               |                     |          |
| 20              | QPSK       | 1       | 1         | 14.01               | 14.20                  | 14.16                |                     |          |
| Frequency (MHz) |            |         |           | 646100              | 649600                 | 654466               | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 14.01               | 14.20                  | 14.16                |                     |          |
| Frequency (MHz) |            |         |           | 645866              | 649600                 | 654932               |                     |          |
| 15              | QPSK       | 1       | 1         | 13.97               | 14.12                  | 14.19                |                     |          |

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| BW [MHz]        | Modulation | Size | RB Offset | Power<br>Low<br>Ch./ Freq. | Power<br>Middle<br>Ch./ Freq. | Power<br>High<br>Ch./ Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB)         |          |
|-----------------|------------|------|-----------|----------------------------|-------------------------------|-----------------------------|------------------------|---------------------|----------|
| Channel         |            |      |           |                            |                               |                             |                        |                     |          |
| Frequency (MHz) |            |      |           | 633332                     |                               | 3498.98                     | 17.5                   | 0.0                 |          |
| 100             | P12 BPSK   | 1    | 1         | 15.06                      |                               |                             |                        |                     |          |
| 100             | P12 BPSK   | 1    | 137       | 15.03                      |                               |                             |                        |                     |          |
| 100             | P12 BPSK   | 1    | 271       | 15.77                      |                               |                             |                        |                     |          |
| 100             | P12 BPSK   | 135  | 0         | 15.80                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | P12 BPSK   | 135  | 69        | 15.79                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | P12 BPSK   | 135  | 138       | 15.70                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | P12 BPSK   | 270  | 0         | 15.71                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | QPSK       | 1    | 1         | 15.97                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | QPSK       | 1    | 137       | 15.68                      |                               |                             |                        |                     |          |
| 100             | QPSK       | 1    | 271       | 15.77                      |                               |                             |                        |                     |          |
| 100             | QPSK       | 135  | 0         | 15.85                      |                               |                             |                        |                     |          |
| 100             | QPSK       | 135  | 69        | 15.86                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | QPSK       | 135  | 138       | 15.86                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | QPSK       | 270  | 0         | 15.81                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | 16QAM      | 1    | 1         | 15.71                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | 16QAM      | 1    | 1         | 15.76                      |                               |                             | 17.5                   | 0.0                 |          |
| 100             | 256QAM     | 1    | 1         | 15.79                      |                               |                             | 17.5                   | 0.0                 |          |
| Channel         |            |      |           |                            |                               |                             |                        |                     |          |
| Frequency (MHz) |            |      |           | 634000                     |                               | 633932                      | 633968                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1    | 1         | 15.09                      |                               | 15.10                       | 15.71                  |                     |          |
| Frequency (MHz) |            |      |           | 634068                     |                               | 634000                      | 634032                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1    | 1         | 15.71                      |                               | 15.78                       | 15.72                  |                     |          |
| Frequency (MHz) |            |      |           | 632134                     |                               | 634332                      | 634368                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1    | 1         | 15.71                      |                               | 15.78                       | 15.80                  |                     |          |
| Frequency (MHz) |            |      |           | 3480                       |                               | 3498.98                     | 3518.99                | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1    | 1         | 15.69                      |                               | 15.78                       | 15.79                  |                     |          |
| Frequency (MHz) |            |      |           | 631968                     |                               | 633932                      | 633968                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1    | 1         | 15.72                      |                               | 15.70                       | 15.70                  |                     |          |
| Frequency (MHz) |            |      |           | 631334                     |                               | 633332                      | 633368                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1    | 1         | 15.87                      |                               | 15.72                       | 15.66                  |                     |          |
| Frequency (MHz) |            |      |           | 631000                     |                               | 633932                      | 633968                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1    | 1         | 15.69                      |                               | 15.73                       | 15.75                  |                     |          |
| Frequency (MHz) |            |      |           | 630500                     |                               | 633332                      | 633368                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1    | 1         | 15.74                      |                               | 15.79                       | 15.87                  |                     |          |
| Frequency (MHz) |            |      |           | 630268                     |                               | 633932                      | 633968                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1    | 1         | 15.80                      |                               | 15.88                       | 15.70                  |                     |          |
| Frequency (MHz) |            |      |           | 630032                     |                               | 633332                      | 633368                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1    | 1         | 15.75                      |                               | 15.76                       | 15.71                  |                     |          |
| Frequency (MHz) |            |      |           | 630032                     |                               | 633932                      | 633968                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1    | 1         | 15.79                      |                               | 15.68                       | 15.57                  |                     |          |
| Frequency (MHz) |            |      |           | 630032                     |                               | 633332                      | 633368                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1    | 1         | 15.79                      |                               | 15.68                       | 15.57                  |                     |          |

| Part27Q_n78_Ant 4 |            |         |           |                      |                         |                       |                     |          |     |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dbm) | MPR (db) |     |
| Channel           |            |         |           | 600000               |                         |                       |                     |          |     |
| Frequency (MHz)   |            |         |           |                      | 18.33                   |                       |                     |          |     |
| 100               | PI2 BPSK   | 1       | 1         |                      | 18.33                   |                       | 17.5                | 0.0      |     |
| 100               | PI2 BPSK   | 1       | 137       |                      | 18.33                   |                       |                     |          |     |
| 100               | PI2 BPSK   | 1       | 271       |                      | 18.20                   |                       |                     |          |     |
| 100               | PI2 BPSK   | 136     | 0         |                      | 18.20                   |                       | 17.5                | 0.0      |     |
| 100               | PI2 BPSK   | 136     | 69        |                      | 18.17                   |                       | 17.5                | 0.0      |     |
| 100               | PI2 BPSK   | 136     | 136       |                      | 18.17                   |                       | 17.5                | 0.0      |     |
| 100               | PI2 BPSK   | 270     | 0         |                      | 18.17                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 1         |                      | 18.38                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 137       |                      | 18.20                   |                       | 17.5                | 0.0      |     |
| 100               | QPSK       | 1       | 271       |                      | 18.20                   |                       |                     |          |     |
| 100               | QPSK       | 136     | 0         |                      | 18.17                   |                       |                     |          |     |
| 100               | QPSK       | 136     | 69        |                      | 18.33                   |                       | 17.5                | 0.0      |     |
| 100               | QPSK       | 136     | 136       |                      | 18.21                   |                       | 17.5                | 0.0      |     |
| 100               | QPSK       | 270     | 0         |                      | 18.20                   |                       | 17.5                | 0.0      |     |
| 100               | 16QAM      | 1       | 1         |                      | 18.22                   |                       | 17.5                | 0.0      |     |
| 100               | 16QAM      | 1       | 1         |                      | 18.12                   |                       | 17.5                | 0.0      |     |
| 100               | 256QAM     | 1       | 1         |                      | 18.12                   |                       | 17.5                | 0.0      |     |
| Channel           |            |         |           | 649668               | 650000                  | 650332                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |     |
| 90                | QPSK       | 1       | 1         |                      | 18.12                   | 18.21                 | 18.24               | 17.5     | 0.0 |
| Channel           |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |     |
| 80                | QPSK       | 1       | 1         |                      | 18.10                   | 18.21                 | 18.10               | 17.5     | 0.0 |
| Channel           |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |     |
| 70                | QPSK       | 1       | 1         |                      | 18.12                   | 18.19                 | 18.15               | 17.5     | 0.0 |
| Channel           |            |         |           | 648668               | 650000                  | 651332                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |     |
| 60                | QPSK       | 1       | 1         |                      | 18.20                   | 18.20                 | 18.24               | 17.5     | 0.0 |
| Channel           |            |         |           | 648334               | 650000                  | 651000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |     |
| 50                | QPSK       | 1       | 1         |                      | 18.12                   | 18.18                 | 18.14               | 17.5     | 0.0 |
| Channel           |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |     |
| 40                | QPSK       | 1       | 1         |                      | 18.24                   | 18.23                 | 18.21               | 17.5     | 0.0 |
| Channel           |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |     |
| 30                | QPSK       | 1       | 1         |                      | 18.24                   | 18.21                 | 18.23               | 17.5     | 0.0 |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |     |
| 20                | QPSK       | 1       | 1         |                      | 18.17                   | 18.12                 | 18.10               | 17.5     | 0.0 |
| Channel           |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |     |
| 15                | QPSK       | 1       | 1         |                      | 18.24                   | 18.24                 | 18.12               | 17.5     | 0.0 |
| Channel           |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |     |
| 10                | QPSK       | 1       | 1         |                      | 18.20                   | 18.11                 | 18.24               | 17.5     | 0.0 |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                      |                         |                       |                     |          |     |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dbm) | MPR (db) |     |
| Channel                |            |         |           | 633332               | 3489.98                 |                       |                     |          |     |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 1         |                      | 15.98                   |                       |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 137       |                      | 15.83                   |                       | 17.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 1       | 271       |                      | 15.77                   |                       |                     |          |     |
| 100                    | PI2 BPSK   | 136     | 0         |                      | 15.80                   |                       | 17.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 136     | 69        |                      | 15.79                   |                       | 17.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 136     | 136       |                      | 15.70                   |                       | 17.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 270     | 0         |                      | 15.71                   |                       |                     |          |     |
| 100                    | QPSK       | 1       | 1         |                      | 15.97                   |                       |                     |          |     |
| 100                    | QPSK       | 1       | 137       |                      | 15.66                   |                       | 17.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 271       |                      | 15.77                   |                       |                     |          |     |
| 100                    | QPSK       | 136     | 0         |                      | 15.85                   |                       |                     |          |     |
| 100                    | QPSK       | 136     | 69        |                      | 15.86                   |                       | 17.5                | 0.0      |     |
| 100                    | QPSK       | 136     | 136       |                      | 15.66                   |                       |                     |          |     |
| 100                    | QPSK       | 270     | 0         |                      | 15.81                   |                       | 17.5                | 0.0      |     |
| 100                    | 16QAM      | 1       | 1         |                      | 15.71                   |                       | 17.5                | 0.0      |     |
| 100                    | 16QAM      | 1       | 1         |                      | 15.78                   |                       | 17.5                | 0.0      |     |
| 100                    | 256QAM     | 1       | 1         |                      | 15.70                   |                       | 17.5                | 0.0      |     |
| Channel                |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |     |
| 90                     | QPSK       | 1       | 1         |                      | 15.69                   | 15.80                 | 15.71               | 17.5     | 0.0 |
| Channel                |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3490.02              | 3499.98                 | 3510                  |                     |          |     |
| 80                     | QPSK       | 1       | 1         |                      | 15.71                   | 15.77                 | 15.72               | 17.5     | 0.0 |
| Channel                |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |     |
| 70                     | QPSK       | 1       | 1         |                      | 15.71                   | 15.78                 | 15.80               | 17.5     | 0.0 |
| Channel                |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3480                 | 3499.98                 | 3519.99               |                     |          |     |
| 60                     | QPSK       | 1       | 1         |                      | 15.69                   | 15.78                 | 15.79               | 17.5     | 0.0 |
| Channel                |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3475.02              | 3499.98                 | 3520                  |                     |          |     |
| 50                     | QPSK       | 1       | 1         |                      | 15.67                   | 15.72                 | 15.66               | 17.5     | 0.0 |
| Channel                |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3470.01              | 3499.98                 | 3523.98               |                     |          |     |
| 40                     | QPSK       | 1       | 1         |                      | 15.69                   | 15.73                 | 15.75               | 17.5     | 0.0 |
| Channel                |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3465                 | 3499.98                 | 3528.99               |                     |          |     |
| 30                     | QPSK       | 1       | 1         |                      | 15.74                   | 15.79                 | 15.67               | 17.5     | 0.0 |
| Channel                |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3460.02              | 3499.98                 | 3530                  |                     |          |     |
| 20                     | QPSK       | 1       | 1         |                      | 15.73                   | 15.79                 | 15.70               | 17.5     | 0.0 |
| Channel                |            |         |           | 630300               | 633332                  | 636366                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3457.5               | 3499.98                 | 3532.49               |                     |          |     |
| 15                     | QPSK       | 1       | 1         |                      | 15.75                   | 15.76                 | 15.71               | 17.5     | 0.0 |
| Channel                |            |         |           | 630000               | 633332                  | 636700                | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz)        |            |         |           | 3455.01              | 3499.98                 | 3534.98               |                     |          |     |
| 10                     | QPSK       | 1       | 1         |                      | 15.79                   | 15.68                 | 15.77               | 17.5     | 0.0 |

| Part27O_n78 HPUE_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 600000               |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           | 3760                 |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 1       | 1         | 18.33                |                         |                       | 17.5                | 0.0      |  |
| 100                    | P12 BPSK   | 1       | 137       | 18.33                |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 1       | 271       | 18.20                |                         |                       | 17.5                | 0.0      |  |
| 100                    | P12 BPSK   | 136     | 0         | 18.20                |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 136     | 69        | 18.17                |                         |                       | 17.5                | 0.0      |  |
| 100                    | P12 BPSK   | 136     | 136       | 18.17                |                         |                       |                     |          |  |
| 100                    | P12 BPSK   | 270     | 0         | 18.17                |                         |                       | 17.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 18.38                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 18.20                |                         |                       | 17.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 18.20                |                         |                       |                     |          |  |
| 100                    | QPSK       | 136     | 0         | 18.17                |                         |                       | 17.5                | 0.0      |  |
| 100                    | QPSK       | 136     | 69        | 18.33                |                         |                       |                     |          |  |
| 100                    | QPSK       | 136     | 136       | 18.21                |                         |                       | 17.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         | 18.20                |                         |                       |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 18.22                |                         |                       | 17.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 18.12                |                         |                       | 17.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 18.12                |                         |                       | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02              | 3750                    | 3754.98               | 17.5                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 18.12                | 18.21                   | 18.24                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01              | 3750                    | 3759.99               | 17.5                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 18.10                | 18.21                   | 18.10                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                 | 3750                    | 3765                  | 17.5                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 18.12                | 18.19                   | 18.15                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 3730.02              | 3750                    | 3769.98               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02              | 3750                    | 3769.98               | 17.5                | 0.0      |  |
| 60                     | QPSK       | 1       | 1         | 18.20                | 18.20                   | 18.24                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 648334               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3723.01              | 3750                    | 3773.99               | 17.5                | 0.0      |  |
| 50                     | QPSK       | 1       | 1         | 18.12                | 18.18                   | 18.14                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                 | 3750                    | 3780                  | 17.5                | 0.0      |  |
| 40                     | QPSK       | 1       | 1         | 18.24                | 18.23                   | 18.21                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3713.02              | 3750                    | 3784.98               | 17.5                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 18.24                | 18.21                   | 18.23                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01              | 3750                    | 3789.99               | 17.5                | 0.0      |  |
| 20                     | QPSK       | 1       | 1         | 18.17                | 18.12                   | 18.10                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647000               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52              | 3750                    | 3792.48               | 17.5                | 0.0      |  |
| 15                     | QPSK       | 1       | 1         | 18.24                | 18.24                   | 18.15                 | 17.5                | 0.0      |  |
| Channel                |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                 | 3750                    | 3795                  | 17.5                | 0.0      |  |
| 10                     | QPSK       | 1       | 1         | 18.20                | 18.11                   | 18.24                 | 17.5                | 0.0      |  |

| Part27Q_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332               |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3489.98              |                         |                       |                     |          |  |
| 100               | P12 BPSK   | 1       | 1         | 22.78                |                         |                       | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 1       | 137       | 22.80                |                         |                       |                     |          |  |
| 100               | P12 BPSK   | 1       | 271       | 22.84                |                         |                       | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 136     | 0         | 22.79                |                         |                       |                     |          |  |
| 100               | P12 BPSK   | 136     | 69        | 22.90                |                         |                       | 24.0                | 0.0      |  |
| 100               | P12 BPSK   | 136     | 136       | 22.81                |                         |                       |                     |          |  |
| 100               | P12 BPSK   | 270     | 0         | 22.79                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 22.93                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 22.86                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 22.90                |                         |                       |                     |          |  |
| 100               | QPSK       | 136     | 0         | 22.88                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 136     | 69        | 22.91                |                         |                       |                     |          |  |
| 100               | QPSK       | 136     | 136       | 22.86                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 22.90                |                         |                       |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 22.91                |                         |                       | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 22.81                |                         |                       | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 22.96                |                         |                       | 23.5                | 0.0      |  |
| Channel           |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                 | 3499.98                 | 3504.99               | 24.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 22.85                | 22.79                   | 22.87                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02              | 3499.98                 | 3500                  | 24.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 22.89                | 22.89                   | 22.82                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01              | 3489.98                 | 3514.98               | 24.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 22.89                | 22.92                   | 22.86                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                 | 3489.98                 | 3519.99               | 24.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 22.85                | 22.90                   | 22.79                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.00              | 3489.98                 | 3505                  | 24.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 22.88                | 22.92                   | 22.85                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01              | 3489.98                 | 3518.98               | 24.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 22.86                | 22.78                   | 22.89                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                 | 3489.98                 | 3524.99               | 24.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 22.83                | 22.90                   | 22.91                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02              | 3489.98                 | 3540                  | 24.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 22.79                | 22.83                   | 22.85                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630300               | 633332                  | 636366                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3489.98                 | 3542.49               | 24.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 22.82                | 22.90                   | 22.82                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630000               | 633332                  | 636666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01              | 3489.98                 | 3544.98               | 24.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 22.81                | 22.85                   | 22.79                 | 24.0                | 0.0      |  |

| Part27Q_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 600000               |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3760                 |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 23.26                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 23.29                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 23.28                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 136     | 0         | 23.29                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 136     | 69        | 23.22                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 136     | 136       | 23.25                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 23.24                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         | 23.31                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 23.27                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 271       | 23.20                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 136     | 0         | 23.22                |                         |                       |                     |          |  |
| 100               | QPSK       | 136     | 69        | 23.28                |                         |                       |                     |          |  |
| 100               | QPSK       | 136     | 136       | 23.16                |                         |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 23.25                |                         |                       | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 23.16                |                         |                       | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 23.24                |                         |                       | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 22.92                |                         |                       | 23.5                | 0.5      |  |
| Channel           |            |         |           | 649668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02              | 3750                    | 3754.98               | 24.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 23.17                | 23.23                   | 23.29                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               | 24.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 23.29                | 23.29                   | 23.19                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  | 24.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 23.16                | 23.18                   | 23.25                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 3750.02              | 3750                    | 3769.98               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3750.02              | 3750                    | 3769.98               | 24.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 23.24                | 23.17                   | 23.24                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3723.01              | 3750                    | 3774.99               | 24.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 23.30                | 23.24                   | 23.24                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  | 24.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 23.28                | 23.25                   | 23.18                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3713.02              | 3750                    | 3784.98               | 24.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 23.30                | 23.19                   | 23.19                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3788.99               | 24.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 23.29                | 23.27                   | 23.21                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000               | 650000                  | 652832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               | 24.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 23.19                | 23.19                   | 23.20                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646700               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  | 24.0                | 0.0      |  |
| 10                | QPSK       | 1       | 1         | 23.16                | 23.26                   | 23.16                 | 24.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633332               |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           | 3489.98              |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 22.78                |                         |                       | 24.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 22.89                |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 22.84                |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 136     | 0         | 22.79                |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 136     | 69        | 22.90                |                         |                       | 24.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 136     | 136       | 22.71                |                         |                       | 24.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 22.79                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 22.93                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 22.86                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 22.90                |                         |                       | 24.0                | 0.0      |  |
| 100                    | QPSK       | 136     | 0         | 22.88                |                         |                       |                     |          |  |
| 100                    | QPSK       | 136     | 69        | 22.91                |                         |                       |                     |          |  |
| 100                    | QPSK       | 136     | 136       | 22.86                |                         |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 22.90                |                         |                       | 24.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 22.91                |                         |                       | 24.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 22.81                |                         |                       | 24.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 22.96                |                         |                       | 23.5                | 0.5      |  |
| Channel                |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475                 | 3489.98                 | 3504.99               | 24.0                | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 22.85                | 22.79                   | 22.87                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02              | 3489.98                 | 3510                  | 24.0                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 22.89                | 22.89                   | 22.82                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01              | 3489.98                 | 3514.98               | 24.0                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 22.89                | 22.92                   | 22.86                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                 | 3489.98                 | 3519.99               | 24.0                | 0.0      |  |
| 60                     | QPSK       | 1       | 1         | 22.85                | 22.90                   | 22.79                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465.02              | 3489.98                 | 3505                  | 24.0                | 0.0      |  |
| 50                     | QPSK       | 1       | 1         | 22.88                | 22.92                   | 22.85                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.01              | 3489.98                 | 3508.98               | 24.0                | 0.0      |  |
| 40                     | QPSK       | 1       | 1         | 22.86                | 22.78                   | 22.89                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455                 | 3489.98                 | 3504.99               | 24.0                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 22.83                | 22.90                   | 22.91                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3450.02              | 3489.98                 | 3500                  | 24.0                | 0.0      |  |
| 20                     | QPSK       | 1       | 1         | 22.79                | 22.83                   | 22.86                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630300               | 633332                  | 636366                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5               | 3489.98                 | 3502.49               | 24.0                | 0.0      |  |
| 15                     | QPSK       | 1       | 1         | 22.82                | 22.90                   | 22.82                 | 24.0                | 0.0      |  |
| Channel                |            |         |           | 630000               | 633332                  | 636666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01              | 3489.98                 | 3504.98               | 24.0                | 0.0      |  |
| 10                     | QPSK       | 1       | 1         | 22.81                | 22.85                   | 22.79                 | 24.0                | 0.0      |  |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3760                  |                          | 65000                  |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.26                 |                          |                        |                     | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 23.29                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 23.28                 |                          |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 0         | 23.29                 |                          |                        | 24.0                |          |
| 100             | PI2 BPSK   | 135     | 69        | 23.22                 |                          |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 135       | 23.25                 |                          |                        | 24.0                |          |
| 100             | PI2 BPSK   | 270     | 0         | 23.24                 |                          |                        |                     | 0.0      |
| 100             | QPSK       | 1       | 1         | 23.31                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.27                 |                          |                        |                     | 0.0      |
| 100             | QPSK       | 1       | 271       | 23.20                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 23.22                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.28                 |                          |                        | 24.0                |          |
| 100             | QPSK       | 135     | 135       | 23.16                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 23.25                 |                          |                        | 24.0                |          |
| 100             | 16QAM      | 1       | 1         | 23.16                 |                          |                        | 24.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 23.24                 |                          |                        | 24.0                |          |
| 100             | 256QAM     | 1       | 1         | 23.30                 |                          |                        | 23.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649698                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 23.17                 | 23.23                    | 23.28                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 23.09                 | 23.29                    | 23.19                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 23.16                 | 23.18                    | 23.25                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 649698                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 23.24                 | 23.17                    | 23.24                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 23.30                 | 23.24                    | 23.24                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 23.28                 | 23.25                    | 23.18                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 23.30                 | 23.19                    | 23.16                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 23.29                 | 23.27                    | 23.27                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 23.19                 | 23.19                    | 23.20                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 23.16                 | 23.26                    | 23.18                  | 24.0                | 0.0      |

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| BW [MHz]        | Modulation | RB size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3499.98               |                          | 633332                 |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 21.99                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 22.01                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 21.99                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 0         | 21.99                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 22.01                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 135       | 21.92                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 22.02                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.13                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 21.93                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 21.97                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 21.96                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.08                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 135       | 22.03                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.97                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 21.87                 |                          |                        | 23.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 21.96                 |                          |                        |                     |          |
| 100             | 256QAM     | 1       | 1         | 21.97                 |                          |                        | 23.0                | 0.0      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 632998                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 21.89                 | 21.85                    | 21.88                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 632666                | 633332                   | 634002                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 21.93                 | 21.94                    | 21.92                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 632332                | 633332                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 21.89                 | 21.96                    | 22.00                  | 23.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 631998                | 633332                   | 635002                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 21.98                 | 21.98                    | 21.98                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 631666                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 21.93                 | 22.00                    | 21.98                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 631332                | 633332                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 21.88                 | 21.95                    | 22.02                  | 23.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 636666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 630998                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 21.98                 | 21.92                    | 21.98                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 630666                | 633332                   | 636002                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 21.91                 | 22.02                    | 21.98                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 630298                | 633332                   | 636368                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 21.98                 | 21.91                    | 21.96                  | 23.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 630332                | 633332                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 21.85                 | 21.94                    | 21.93                  | 23.0                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3760                  |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 21.91                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 21.93                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 21.96                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 0         | 21.92                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 21.96                 |                          |                        | 23.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 135       | 21.93                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 21.94                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.11                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 21.97                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 21.96                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 21.89                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.05                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 135       | 21.96                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.90                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 21.86                 |                          |                        | 23.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 21.96                 |                          |                        |                     |          |
| 100             | 256QAM     | 1       | 1         | 22.00                 |                          |                        | 23.0                | 0.0      |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 |                     |          |
| Frequency (MHz) |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| 90              | QPSK       | 1       | 1         | 21.88                 | 21.95                    | 21.89                  | 23.0                | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 |                     |          |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 21.85                 | 21.99                    | 21.91                  | 23.0                | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 |                     |          |
| Frequency (MHz) |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| 70              | QPSK       | 1       | 1         | 21.90                 | 22.03                    | 21.96                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 |                     |          |
| Frequency (MHz) |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| 60              | QPSK       | 1       | 1         | 21.91                 | 21.99                    | 21.97                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 |                     |          |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |
| 50              | QPSK       | 1       | 1         | 21.94                 | 21.93                    | 21.94                  | 23.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 |                     |          |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 21.94                 | 22.01                    | 21.95                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 |                     |          |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| 30              | QPSK       | 1       | 1         | 21.94                 | 21.99                    | 21.93                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 |                     |          |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| 20              | QPSK       | 1       | 1         | 21.95                 | 21.90                    | 21.99                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647169                | 650000                   | 652831                 |                     |          |
| Frequency (MHz) |            |         |           | 647169                | 650000                   | 652831                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 21.97                 | 22.03                    | 21.99                  | 23.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 653000                 |                     |          |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 21.93                 | 22.04                    | 21.89                  | 23.0                | 0.0      |
| Channel         |            |         |           | 646835                | 650000                   | 653165                 |                     |          |
| Frequency (MHz) |            |         |           | 646835                | 650000                   | 653165                 | Tune-up limit (dBm) | MPR (dB) |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                     |                        |                      |                     |     |          |
|-------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|-----|----------|
| BW (MHz)                | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |     | MPR (dB) |
| Channel                 |            |         |           | 633332              |                        |                      |                     |     |          |
| Frequency (MHz)         |            |         |           | 3499.98             |                        |                      |                     |     |          |
| 100                     | PV2 BPSK   | 1       | 1         | 23.83               |                        |                      | 25.0                | 0.0 |          |
| 100                     | PV2 BPSK   | 1       | 137       | 24.01               |                        |                      |                     |     |          |
| 100                     | PV2 BPSK   | 1       | 271       | 23.98               |                        |                      |                     |     |          |
| 100                     | PV2 BPSK   | 135     | 0         | 23.88               |                        |                      | 25.0                | 0.0 |          |
| 100                     | PV2 BPSK   | 135     | 69        | 23.92               |                        |                      | 25.0                | 0.0 |          |
| 100                     | PV2 BPSK   | 135     | 135       | 23.87               |                        |                      | 25.0                | 0.0 |          |
| 100                     | PV2 BPSK   | 270     | 0         | 23.92               |                        |                      |                     |     |          |
| 100                     | QPSK       | 1       | 1         | 24.15               |                        |                      |                     |     |          |
| 100                     | QPSK       | 1       | 137       | 24.04               |                        |                      | 25.0                | 0.0 |          |
| 100                     | QPSK       | 1       | 271       | 24.13               |                        |                      |                     |     |          |
| 100                     | QPSK       | 135     | 0         | 23.88               |                        |                      |                     |     |          |
| 100                     | QPSK       | 135     | 69        | 23.96               |                        |                      | 25.0                | 0.0 |          |
| 100                     | QPSK       | 135     | 135       | 23.81               |                        |                      |                     |     |          |
| 100                     | QPSK       | 270     | 0         | 23.91               |                        |                      |                     |     |          |
| 100                     | 16QAM      | 1       | 1         | 23.98               |                        |                      | 25.0                | 0.0 |          |
| 100                     | 64QAM      | 1       | 1         | 23.99               |                        |                      | 25.0                | 0.0 |          |
| 100                     | 256QAM     | 1       | 1         | 22.96               |                        |                      | 23.5                | 1.5 |          |
| Channel                 |            |         |           | 638000              | 633332                 | 638666               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3495                | 3499.98                | 3504.98              |                     |     |          |
| 90                      | QPSK       | 1       | 1         | 23.74               | 23.80                  | 23.15                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 632668              | 633332                 | 634000               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3490.02             | 3499.98                | 3510                 |                     |     |          |
| 80                      | QPSK       | 1       | 1         | 23.72               | 23.74                  | 23.76                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 632334              | 633332                 | 634332               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3485.01             | 3499.98                | 3514.98              |                     |     |          |
| 70                      | QPSK       | 1       | 1         | 23.74               | 23.83                  | 23.87                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 632000              | 633332                 | 634666               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3480                | 3499.98                | 3519.98              |                     |     |          |
| 60                      | QPSK       | 1       | 1         | 23.82               | 23.83                  | 23.74                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 631668              | 633332                 | 635000               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3475.02             | 3499.98                | 3525                 |                     |     |          |
| 50                      | QPSK       | 1       | 1         | 23.81               | 23.77                  | 23.76                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 631334              | 633332                 | 635332               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3470.01             | 3499.98                | 3528.98              |                     |     |          |
| 40                      | QPSK       | 1       | 1         | 23.77               | 23.82                  | 23.81                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 631000              | 633332                 | 635666               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3465                | 3499.98                | 3534.98              |                     |     |          |
| 30                      | QPSK       | 1       | 1         | 23.68               | 23.72                  | 23.87                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 630668              | 633332                 | 636000               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3460.02             | 3499.98                | 3540                 |                     |     |          |
| 20                      | QPSK       | 1       | 1         | 23.75               | 23.83                  | 23.74                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 630300              | 633332                 | 636166               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3457.5              | 3499.98                | 3542.49              |                     |     |          |
| 15                      | QPSK       | 1       | 1         | 23.74               | 23.78                  | 23.74                | 25.0                | 0.0 |          |
| Channel                 |            |         |           | 630154              | 633332                 | 636332               | Tune-up limit (dBm) |     |          |
| Frequency (MHz)         |            |         |           | 3455.01             | 3499.98                | 3544.98              |                     |     |          |
| 10                      | QPSK       | 1       | 1         | 23.80               | 23.74                  | 23.86                | 25.0                | 0.0 |          |





| Part27Q_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                |            |         |           | 633332                |                          |                        | 15.5                | 0.0      |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        |                     |          |
| 100                    | PI2 BPSK   | 1       | 1         | 14.71                 |                          |                        | 15.5                | 0.0      |
| 100                    | PI2 BPSK   | 1       | 137       | 14.66                 |                          |                        |                     |          |
| 100                    | PI2 BPSK   | 1       | 271       | 14.63                 |                          |                        | 15.5                | 0.0      |
| 100                    | PI2 BPSK   | 135     | 0         | 14.63                 |                          |                        |                     |          |
| 100                    | PI2 BPSK   | 135     | 69        | 14.71                 |                          |                        | 15.5                | 0.0      |
| 100                    | PI2 BPSK   | 135     | 138       | 14.76                 |                          |                        |                     |          |
| 100                    | PI2 BPSK   | 270     | 0         | 14.66                 |                          |                        | 15.5                | 0.0      |
| 100                    | QPSK       | 1       | 1         | 14.78                 |                          |                        |                     |          |
| 100                    | QPSK       | 1       | 137       | 14.67                 |                          |                        | 15.5                | 0.0      |
| 100                    | QPSK       | 1       | 271       | 14.68                 |                          |                        |                     |          |
| 100                    | QPSK       | 135     | 0         | 14.68                 |                          |                        | 15.5                | 0.0      |
| 100                    | QPSK       | 135     | 69        | 14.73                 |                          |                        |                     |          |
| 100                    | QPSK       | 135     | 138       | 14.68                 |                          |                        | 15.5                | 0.0      |
| 100                    | QPSK       | 270     | 0         | 14.70                 |                          |                        |                     |          |
| 100                    | 16QAM      | 1       | 1         | 14.67                 |                          |                        | 15.5                | 0.0      |
| 100                    | 16QAM      | 1       | 1         | 14.65                 |                          |                        |                     |          |
| 100                    | 256QAM     | 1       | 1         | 14.73                 |                          |                        | 15.5                | 0.0      |
| 100                    | 256QAM     | 1       | 1         | 14.73                 |                          |                        |                     |          |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |
| 90                     | QPSK       | 1       | 1         | 14.68                 | 14.69                    | 14.69                  | 15.5                | 0.0      |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80                     | QPSK       | 1       | 1         | 14.67                 | 14.68                    | 14.69                  | 15.5                | 0.0      |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70                     | QPSK       | 1       | 1         | 14.67                 | 14.62                    | 14.57                  | 15.5                | 0.0      |
| Channel                |            |         |           | 632520                | 633332                   | 634144                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.98                |                     |          |
| 60                     | QPSK       | 1       | 1         | 14.69                 | 14.66                    | 14.63                  | 15.5                | 0.0      |
| Channel                |            |         |           | 631094                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50                     | QPSK       | 1       | 1         | 14.68                 | 14.63                    | 14.58                  | 15.5                | 0.0      |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3528.98                |                     |          |
| 40                     | QPSK       | 1       | 1         | 14.67                 | 14.69                    | 14.55                  | 15.5                | 0.0      |
| Channel                |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3531.98                |                     |          |
| 30                     | QPSK       | 1       | 1         | 14.65                 | 14.67                    | 14.60                  | 15.5                | 0.0      |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                     | QPSK       | 1       | 1         | 14.62                 | 14.69                    | 14.68                  | 15.5                | 0.0      |
| Channel                |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                     | QPSK       | 1       | 1         | 14.65                 | 14.67                    | 14.69                  | 15.5                | 0.0      |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                     | QPSK       | 1       | 1         | 14.63                 | 14.60                    | 14.68                  | 15.5                | 0.0      |

| Part270_n78 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           | 650000                |                          |                        | 15.5                | 0.0      |     |
| Frequency (MHz)        |            |         |           | 3750                  |                          |                        |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 14.62                    |                        | 15.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 14.73                    |                        |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 14.78                    |                        | 15.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 14.78                    |                        |                     |          |     |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 14.68                    |                        | 15.5                | 0.0      |     |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 14.72                    |                        |                     |          |     |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 14.78                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 1         |                       | 14.62                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 137       |                       | 14.76                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 1       | 271       |                       | 14.65                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 14.68                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 135     | 69        |                       | 14.76                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 138       |                       | 14.75                    |                        | 15.5                | 0.0      |     |
| 100                    | QPSK       | 270     | 0         |                       | 14.71                    |                        |                     |          |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.74                    |                        | 15.5                | 0.0      |     |
| 100                    | 16QAM      | 1       | 1         |                       | 14.67                    |                        | 15.5                | 0.0      |     |
| 100                    | 256QAM     | 1       | 1         |                       | 14.71                    |                        | 15.5                | 0.0      |     |
| Channel                |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |     |
| 80                     | QPSK       | 1       | 1         |                       | 14.66                    | 14.70                  | 14.65               | 15.5     | 0.0 |
| Channel                |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3749.01               | 3750                     | 3759.99                |                     |          |     |
| 80                     | QPSK       | 1       | 1         |                       | 14.62                    | 14.68                  | 14.70               | 15.5     | 0.0 |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |     |
| 70                     | QPSK       | 1       | 1         | 14.58                 | 14.58                    | 14.66                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 650000                | 650000                   | 651100                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3750.02               | 3750                     | 3769.98                |                     |          |     |
| 60                     | QPSK       | 1       | 1         | 14.58                 | 14.60                    | 14.70                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 649334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3729.01               | 3750                     | 3774.99                |                     |          |     |
| 50                     | QPSK       | 1       | 1         | 14.69                 | 14.60                    | 14.64                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |     |
| 40                     | QPSK       | 1       | 1         | 14.64                 | 14.65                    | 14.65                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |     |
| 30                     | QPSK       | 1       | 1         | 14.70                 | 14.66                    | 14.69                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |     |
| 20                     | QPSK       | 1       | 1         | 14.65                 | 14.61                    | 14.60                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3707.62               | 3750                     | 3792.48                |                     |          |     |
| 15                     | QPSK       | 1       | 1         | 14.67                 | 14.67                    | 14.60                  | 15.5                | 0.0      |     |
| Channel                |            |         |           | 647010                | 650000                   | 653010                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |     |
| 10                     | QPSK       | 1       | 1         | 14.65                 | 14.60                    | 14.65                  | 15.5                | 0.0      |     |



| Band 2_Ant 0    |        |         |           |             |              |            |              |                  |          |
|-----------------|--------|---------|-----------|-------------|--------------|------------|--------------|------------------|----------|
| RF [MHz]        | Module | RF Size | RF Offset | Low Ch Freq | High Ch Freq | Modulation | High Ch Freq | Turn-up Int (dB) | MFR (dB) |
| Channel         |        |         |           |             |              |            |              |                  |          |
| Frequency [MHz] |        |         |           |             |              |            |              |                  |          |
| 20              | QPSK   | 1       | 0         | 16.16       | 16.18        | 16.12      | 17.4         | 0                |          |
| 20              | QPSK   | 1       | 49        | 16.20       | 16.23        | 16.21      |              |                  |          |
| 20              | QPSK   | 1       | 99        | 16.10       | 16.19        | 16.10      |              |                  |          |
| 20              | QPSK   | 50      | 0         | 16.13       | 16.20        | 16.26      |              |                  |          |
| 20              | QPSK   | 50      | 24        | 16.08       | 16.14        | 16.06      | 17.4         | 0                |          |
| 20              | QPSK   | 50      | 50        | 16.11       | 16.17        | 16.16      |              |                  |          |
| 20              | QPSK   | 100     | 0         | 16.22       | 16.23        | 16.21      |              |                  |          |
| 20              | ISQAM  | 1       | 0         | 16.19       | 16.22        | 16.24      |              |                  |          |
| 20              | ISQAM  | 1       | 49        | 16.15       | 16.21        | 16.17      | 17.4         | 0                |          |
| 20              | ISQAM  | 1       | 99        | 16.15       | 16.20        | 16.21      |              |                  |          |
| 20              | ISQAM  | 50      | 0         | 16.13       | 16.30        | 16.17      |              |                  |          |
| 20              | ISQAM  | 50      | 24        | 16.20       | 16.20        | 16.20      | 17.4         | 0                |          |
| 20              | ISQAM  | 50      | 50        | 16.23       | 16.26        | 16.22      |              |                  |          |
| 20              | ISQAM  | 100     | 0         | 16.21       | 16.20        | 16.17      |              |                  |          |
| 20              | ISQAM  | 1       | 0         | 16.20       | 16.24        | 16.16      |              |                  |          |
| 20              | ISQAM  | 1       | 49        | 16.20       | 16.26        | 16.16      | 17.4         | 0                |          |
| 20              | ISQAM  | 1       | 99        | 16.24       | 16.32        | 16.21      |              |                  |          |
| 20              | ISQAM  | 50      | 0         | 16.13       | 16.30        | 16.17      |              |                  |          |
| 20              | ISQAM  | 50      | 24        | 16.27       | 16.30        | 16.21      | 17.4         | 0                |          |
| 20              | ISQAM  | 50      | 50        | 16.26       | 16.30        | 16.17      |              |                  |          |
| 20              | ISQAM  | 100     | 0         | 16.13       | 16.32        | 16.30      |              |                  |          |
| Channel         |        |         |           |             |              |            |              |                  |          |
| Frequency [MHz] |        |         |           |             |              |            |              |                  |          |
| 15              | QPSK   | 1       | 0         | 16.07       | 16.11        | 16.07      | 17.4         | 0                |          |
| 15              | QPSK   | 1       | 37        | 16.07       | 16.11        | 16.07      |              |                  |          |
| 15              | QPSK   | 1       | 74        | 16.06       | 16.14        | 16.07      |              |                  |          |
| 15              | QPSK   | 36      | 0         | 16.09       | 16.19        | 16.08      |              |                  |          |
| 15              | QPSK   | 36      | 20        | 16.07       | 16.19        | 16.08      |              |                  |          |
| 15              | QPSK   | 36      | 39        | 16.02       | 16.05        | 16.06      | 17.4         | 0                |          |
| 15              | QPSK   | 75      | 0         | 16.16       | 16.13        | 16.11      |              |                  |          |
| 15              | QPSK   | 75      | 1         | 16.09       | 16.13        | 16.12      |              |                  |          |
| 15              | ISQAM  | 1       | 37        | 16.11       | 16.19        | 16.12      | 17.4         | 0                |          |
| 15              | ISQAM  | 1       | 74        | 16.05       | 16.26        | 16.08      |              |                  |          |
| 15              | ISQAM  | 36      | 0         | 16.06       | 16.26        | 16.08      |              |                  |          |
| 15              | ISQAM  | 36      | 20        | 16.10       | 16.17        | 16.14      | 17.4         | 0                |          |
| 15              | ISQAM  | 36      | 39        | 16.07       | 16.11        | 16.09      |              |                  |          |
| 15              | ISQAM  | 75      | 0         | 16.11       | 16.26        | 16.06      |              |                  |          |
| 15              | ISQAM  | 1       | 0         | 16.10       | 16.16        | 16.13      |              |                  |          |
| 15              | ISQAM  | 1       | 37        | 16.11       | 16.19        | 16.08      | 17.4         | 0                |          |
| 15              | ISQAM  | 1       | 74        | 16.14       | 16.27        | 16.09      |              |                  |          |
| 15              | ISQAM  | 36      | 0         | 16.10       | 16.16        | 16.05      |              |                  |          |
| 15              | ISQAM  | 36      | 20        | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 15              | ISQAM  | 36      | 39        | 16.15       | 16.20        | 16.15      |              |                  |          |
| 15              | ISQAM  | 75      | 0         | 16.01       | 16.16        | 16.17      |              |                  |          |
| Channel         |        |         |           |             |              |            |              |                  |          |
| Frequency [MHz] |        |         |           |             |              |            |              |                  |          |
| 10              | QPSK   | 1       | 0         | 16.04       | 16.09        | 16.09      | 17.4         | 0                |          |
| 10              | QPSK   | 1       | 49        | 16.07       | 16.15        | 16.20      |              |                  |          |
| 10              | QPSK   | 25      | 0         | 16.06       | 16.26        | 16.16      |              |                  |          |
| 10              | QPSK   | 25      | 25        | 16.05       | 16.10        | 16.13      | 17.4         | 0                |          |
| 10              | QPSK   | 25      | 25        | 16.05       | 16.20        | 16.13      |              |                  |          |
| 10              | QPSK   | 50      | 0         | 16.12       | 16.19        | 16.20      |              |                  |          |
| 10              | ISQAM  | 1       | 25        | 16.09       | 16.20        | 16.12      | 17.4         | 0                |          |
| 10              | ISQAM  | 1       | 49        | 16.11       | 16.28        | 16.12      |              |                  |          |
| 10              | ISQAM  | 24      | 0         | 16.03       | 16.20        | 16.08      |              |                  |          |
| 10              | ISQAM  | 25      | 12        | 16.09       | 16.19        | 16.18      | 17.4         | 0                |          |
| 10              | ISQAM  | 25      | 25        | 16.09       | 16.13        | 16.10      |              |                  |          |
| 10              | ISQAM  | 50      | 0         | 16.17       | 16.27        | 16.09      |              |                  |          |
| 10              | ISQAM  | 1       | 0         | 16.08       | 16.13        | 16.04      |              |                  |          |
| 10              | ISQAM  | 1       | 25        | 16.18       | 16.19        | 16.05      | 17.4         | 0                |          |
| 10              | ISQAM  | 1       | 49        | 16.15       | 16.20        | 16.13      |              |                  |          |
| 10              | ISQAM  | 25      | 0         | 16.04       | 16.27        | 16.14      |              |                  |          |
| 10              | ISQAM  | 25      | 12        | 16.16       | 16.20        | 16.12      | 17.4         | 0                |          |
| 10              | ISQAM  | 25      | 25        | 16.21       | 16.22        | 16.09      |              |                  |          |
| 10              | ISQAM  | 50      | 0         | 16.01       | 16.21        | 16.11      |              |                  |          |
| 10              | ISQAM  | 1       | 0         | 16.13       | 16.26        | 16.15      | 17.4         | 0                |          |
| 10              | ISQAM  | 1       | 25        | 16.16       | 16.20        | 16.25      |              |                  |          |
| 10              | ISQAM  | 1       | 49        | 16.14       | 16.23        | 16.16      |              |                  |          |
| 10              | ISQAM  | 25      | 0         | 16.03       | 16.27        | 16.09      |              |                  |          |
| 10              | ISQAM  | 25      | 12        | 16.21       | 16.22        | 16.09      | 17.4         | 0                |          |
| 10              | ISQAM  | 25      | 25        | 16.19       | 16.17        | 16.07      |              |                  |          |
| 10              | ISQAM  | 50      | 0         | 16.08       | 16.10        | 16.16      |              |                  |          |
| Channel         |        |         |           |             |              |            |              |                  |          |
| Frequency [MHz] |        |         |           |             |              |            |              |                  |          |
| 5               | QPSK   | 1       | 0         | 16.02       | 16.07        | 16.01      | 17.4         | 0                |          |
| 5               | QPSK   | 1       | 12        | 16.02       | 16.07        | 16.02      |              |                  |          |
| 5               | QPSK   | 1       | 24        | 15.99       | 16.08        | 15.98      |              |                  |          |
| 5               | QPSK   | 12      | 0         | 16.05       | 16.19        | 16.08      |              |                  |          |
| 5               | QPSK   | 12      | 7         | 16.02       | 16.04        | 16.00      | 17.4         | 0                |          |
| 5               | QPSK   | 12      | 13        | 16.05       | 16.08        | 16.06      |              |                  |          |
| 5               | QPSK   | 25      | 0         | 16.12       | 16.12        | 16.18      |              |                  |          |
| 5               | ISQAM  | 1       | 0         | 16.06       | 16.12        | 16.08      |              |                  |          |
| 5               | ISQAM  | 1       | 12        | 16.09       | 16.20        | 16.14      | 17.4         | 0                |          |
| 5               | ISQAM  | 1       | 24        | 16.11       | 16.28        | 16.14      |              |                  |          |
| 5               | ISQAM  | 12      | 0         | 16.16       | 16.20        | 16.12      |              |                  |          |
| 5               | ISQAM  | 12      | 7         | 16.13       | 16.16        | 16.18      | 17.4         | 0                |          |
| 5               | ISQAM  | 12      | 13        | 16.11       | 16.17        | 16.12      |              |                  |          |
| 5               | ISQAM  | 24      | 0         | 16.11       | 16.28        | 16.14      |              |                  |          |
| 5               | ISQAM  | 1       | 0         | 16.18       | 16.15        | 16.08      |              |                  |          |
| 5               | ISQAM  | 1       | 12        | 16.17       | 16.18        | 16.13      | 17.4         | 0                |          |
| 5               | ISQAM  | 1       | 24        | 16.14       | 16.28        | 16.14      |              |                  |          |
| 5               | ISQAM  | 12      | 0         | 16.10       | 16.22        | 16.08      |              |                  |          |
| 5               | ISQAM  | 12      | 7         | 16.23       | 16.23        | 16.18      | 17.4         | 0                |          |
| 5               | ISQAM  | 12      | 13        | 16.23       | 16.18        | 16.12      |              |                  |          |
| 5               | ISQAM  | 25      | 0         | 16.09       | 16.14        | 16.17      |              |                  |          |
| 5               | ISQAM  | 1       | 0         | 16.16       | 16.16        | 16.13      | 17.4         | 0                |          |
| 5               | ISQAM  | 1       | 12        | 16.13       | 16.20        | 16.22      |              |                  |          |
| 5               | ISQAM  | 1       | 24        | 16.17       | 16.19        | 16.09      |              |                  |          |
| 5               | ISQAM  | 12      | 0         | 16.08       | 16.26        | 16.10      |              |                  |          |
| 5               | ISQAM  | 12      | 7         | 16.10       | 16.18        | 16.04      | 17.4         | 0                |          |
| 5               | ISQAM  | 12      | 13        | 16.25       | 16.17        | 16.13      |              |                  |          |
| 5               | ISQAM  | 25      | 0         | 16.11       | 16.12        | 16.16      |              |                  |          |
| Channel         |        |         |           |             |              |            |              |                  |          |
| Frequency [MHz] |        |         |           |             |              |            |              |                  |          |
| 3               | QPSK   | 1       | 0         | 16.14       | 16.14        | 16.04      | 17.4         | 0                |          |
| 3               | QPSK   | 1       | 5         | 16.10       | 16.24        | 16.20      |              |                  |          |
| 3               | QPSK   | 1       | 14        | 16.02       | 16.06        | 16.09      |              |                  |          |
| 3               | QPSK   | 3       | 0         | 16.09       | 16.17        | 16.16      |              |                  |          |
| 3               | QPSK   | 3       | 4         | 15.97       | 16.04        | 16.00      | 17.4         | 0                |          |
| 3               | QPSK   | 8       | 7         | 16.01       | 16.09        | 16.13      |              |                  |          |
| 3               | QPSK   | 14      | 0         | 16.12       | 16.24        | 16.17      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.11       | 16.16        | 16.15      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.08       | 16.21        | 16.05      | 17.4         | 0                |          |
| 3               | ISQAM  | 1       | 14        | 16.11       | 16.24        | 16.17      |              |                  |          |
| 3               | ISQAM  | 3       | 0         | 16.09       | 16.20        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 4         | 16.17       | 16.16        | 16.16      | 17.4         | 0                |          |
| 3               | ISQAM  | 8       | 7         | 16.01       | 16.09        | 16.13      |              |                  |          |
| 3               | ISQAM  | 14      | 0         | 16.14       | 16.25        | 16.16      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |
| 3               | ISQAM  | 8       | 7         | 16.10       | 16.12        | 16.14      |              |                  |          |
| 3               | ISQAM  | 15      | 0         | 16.14       | 16.25        | 16.06      |              |                  |          |
| 3               | ISQAM  | 1       | 0         | 16.17       | 16.21        | 16.04      |              |                  |          |
| 3               | ISQAM  | 1       | 8         | 16.17       | 16.24        | 16.17      | 17.4         | 0                |          |
| 3               | ISQAM  | 3       | 0         | 16.12       | 16.24        | 16.11      |              |                  |          |
| 3               | ISQAM  | 3       | 1         | 16.16       | 16.20        | 16.14      |              |                  |          |

| Reduced Power Mode for Other PA DS33 |        |         |           |                |            |                 |                  |          |  |
|--------------------------------------|--------|---------|-----------|----------------|------------|-----------------|------------------|----------|--|
| Band 2_Ant 1                         |        |         |           |                |            |                 |                  |          |  |
| RF [MHz]                             | Module | RF Size | RF Offset | Low Power Freq | Power Freq | Power High Freq | Turn-up Int (dB) | MFR (dB) |  |
| Channel                              |        |         |           |                |            |                 |                  |          |  |
| Frequency (MHz)                      |        |         |           |                |            |                 |                  |          |  |
| 20                                   | QPSK   | 1       | 0         | 17.67          | 17.77      | 17.74           | 19               | 0        |  |
| 20                                   | QPSK   | 1       | 49        | 17.71          | 17.71      | 17.75           |                  |          |  |
| 20                                   | QPSK   | 1       | 99        | 17.71          | 17.70      | 17.70           |                  |          |  |
| 20                                   | QPSK   | 50      | 24        | 17.73          | 17.72      | 17.72           |                  |          |  |
| 20                                   | QPSK   | 50      | 50        | 17.61          | 17.62      | 17.73           | 19               | 0        |  |
| 20                                   | QPSK   | 100     | 0         | 17.60          | 17.63      | 17.62           |                  |          |  |
| 20                                   | ISQAM  | 1       | 0         | 17.77          | 17.81      | 17.78           |                  |          |  |
| 20                                   | ISQAM  | 1       | 49        | 17.77          | 17.77      | 17.77           |                  |          |  |
| 20                                   | ISQAM  | 1       | 99        | 17.75          | 17.79      | 17.79           |                  |          |  |
| 20                                   | ISQAM  | 50      | 0         | 17.73          | 17.79      | 17.79           |                  |          |  |
| 20                                   | ISQAM  | 50      | 24        | 17.72          | 17.82      | 17.77           | 19               | 0        |  |
| 20                                   | ISQAM  | 50      | 50        | 17.70          | 17.76      | 17.73           |                  |          |  |
| 20                                   | ISQAM  | 100     | 0         | 17.72          | 17.82      | 17.77           |                  |          |  |
| 20                                   | ISQAM  | 1       | 49        | 17.73          | 17.72      | 17.83           |                  |          |  |
| 20                                   | ISQAM  | 1       | 99        | 17.80          | 17.79      | 17.70           |                  |          |  |
| 20                                   | ISQAM  | 50      | 0         | 17.72          | 17.77      | 17.72           |                  |          |  |
| 20                                   | ISQAM  | 50      | 24        | 17.72          | 17.82      | 17.77           | 19               | 0        |  |
| 20                                   | ISQAM  | 50      | 50        | 17.75          | 17.81      | 17.70           |                  |          |  |
| 20                                   | ISQAM  | 100     | 0         | 17.76          | 17.81      | 17.74           |                  |          |  |
| 20                                   | ISQAM  | 100     | 0         | 17.76          | 17.80      | 17.82           |                  |          |  |
| 20                                   | ISQAM  | 100     | 0         | 17.76          | 17.80      | 17.82           |                  |          |  |
| Channel                              |        |         |           |                |            |                 |                  |          |  |
| Frequency (MHz)                      |        |         |           |                |            |                 |                  |          |  |
| 16                                   | QPSK   | 1       | 0         | 17.64          | 17.71      | 17.60           | 19               | 0        |  |
| 16                                   | QPSK   | 1       | 37        | 17.72          | 17.69      | 17.79           |                  |          |  |
| 16                                   | QPSK   | 1       | 74        | 17.69          | 17.66      | 17.66           |                  |          |  |
| 16                                   | QPSK   | 36      | 0         | 17.63          | 17.71      | 17.68           |                  |          |  |
| 16                                   | QPSK   | 36      | 20        | 17.78          | 17.64      | 17.66           |                  |          |  |
| 16                                   | QPSK   | 36      | 50        | 17.69          | 17.69      | 17.69           |                  |          |  |
| 16                                   | QPSK   | 75      | 0         | 17.72          | 17.81      | 17.81           |                  |          |  |
| 16                                   | ISQAM  | 1       | 0         | 17.72          | 17.67      | 17.65           |                  |          |  |
| 16                                   | ISQAM  | 1       | 37        | 17.69          | 17.76      | 17.76           |                  |          |  |
| 16                                   | ISQAM  | 1       | 74        | 17.69          | 17.75      | 17.76           |                  |          |  |
| 16                                   | ISQAM  | 36      | 0         | 17.68          | 17.74      | 17.68           |                  |          |  |
| 16                                   | ISQAM  | 36      | 20        | 17.68          | 17.70      | 17.72           |                  |          |  |
| 16                                   | ISQAM  | 36      | 50        | 17.68          | 17.62      | 17.63           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.66          | 17.74      | 17.66           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.68          | 17.70      | 17.72           |                  |          |  |
| 16                                   | ISQAM  | 36      | 39        | 17.68          | 17.62      | 17.63           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.66          | 17.74      | 17.66           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.68          | 17.70      | 17.72           |                  |          |  |
| 16                                   | ISQAM  | 1       | 37        | 17.70          | 17.66      | 17.77           |                  |          |  |
| 16                                   | ISQAM  | 36      | 74        | 17.77          | 17.66      | 17.77           | 19               | 0        |  |
| 16                                   | ISQAM  | 36      | 74        | 17.74          | 17.74      | 17.74           |                  |          |  |
| 16                                   | ISQAM  | 36      | 20        | 17.69          | 17.66      | 17.61           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.66          | 17.74      | 17.66           | 19               | 0        |  |
| 16                                   | ISQAM  | 75      | 0         | 17.68          | 17.72      | 17.69           |                  |          |  |
| 16                                   | ISQAM  | 1       | 0         | 17.73          | 17.78      | 17.69           |                  |          |  |
| 16                                   | ISQAM  | 1       | 37        | 17.69          | 17.76      | 17.76           |                  |          |  |
| 16                                   | ISQAM  | 1       | 74        | 17.78          | 17.67      | 17.61           |                  |          |  |
| 16                                   | ISQAM  | 36      | 0         | 17.64          | 17.71      | 17.68           |                  |          |  |
| 16                                   | ISQAM  | 36      | 20        | 17.68          | 17.68      | 17.68           |                  |          |  |
| 16                                   | ISQAM  | 36      | 50        | 17.67          | 17.74      | 17.70           |                  |          |  |
| 16                                   | ISQAM  | 75      | 0         | 17.62          | 17.72      | 17.60           |                  |          |  |
| Channel                              |        |         |           |                |            |                 |                  |          |  |
| Frequency (MHz)                      |        |         |           |                |            |                 |                  |          |  |
| 10                                   | QPSK   | 1       | 0         | 17.57          | 17.78      | 17.60           | 19               | 0        |  |
| 10                                   | QPSK   | 1       | 25        | 17.73          | 17.77      | 17.73           |                  |          |  |
| 10                                   | QPSK   | 1       | 50        | 17.69          | 17.66      | 17.66           |                  |          |  |
| 10                                   | QPSK   | 25      | 0         | 17.60          | 17.58      | 17.61           |                  |          |  |
| 10                                   | QPSK   | 25      | 12        | 17.80          | 17.71      | 17.61           |                  |          |  |
| 10                                   | QPSK   | 25      | 25        | 17.69          | 17.69      | 17.69           |                  |          |  |
| 10                                   | QPSK   | 50      | 0         | 17.72          | 17.80      | 17.72           |                  |          |  |
| 10                                   | QPSK   | 50      | 12        | 17.64          | 17.64      | 17.71           |                  |          |  |
| 10                                   | ISQAM  | 1       | 25        | 17.62          | 17.66      | 17.66           |                  |          |  |
| 10                                   | ISQAM  | 1       | 49        | 17.68          | 17.66      | 17.65           |                  |          |  |
| 10                                   | ISQAM  | 1       | 74        | 17.68          | 17.66      | 17.67           |                  |          |  |
| 10                                   | ISQAM  | 25      | 12        | 17.67          | 17.68      | 17.67           |                  |          |  |
| 10                                   | ISQAM  | 25      | 25        | 17.61          | 17.75      | 17.64           |                  |          |  |
| 10                                   | ISQAM  | 25      | 50        | 17.64          | 17.64      | 17.64           |                  |          |  |
| 10                                   | ISQAM  | 1       | 0         | 17.65          | 17.79      | 17.74           |                  |          |  |
| 10                                   | ISQAM  | 1       | 25        | 17.60          | 17.68      | 17.78           |                  |          |  |
| 10                                   | ISQAM  | 1       | 49        | 17.68          | 17.68      | 17.68           | 19               | 0        |  |
| 10                                   | ISQAM  | 25      | 0         | 17.73          | 17.63      | 17.66           |                  |          |  |
| 10                                   | ISQAM  | 25      | 12        | 17.69          | 17.66      | 17.69           |                  |          |  |
| 10                                   | ISQAM  | 25      | 25        | 17.64          | 17.73      | 17.65           |                  |          |  |
| 10                                   | ISQAM  | 50      | 0         | 17.66          | 17.78      | 17.66           |                  |          |  |
| Channel                              |        |         |           |                |            |                 |                  |          |  |
| Frequency (MHz)                      |        |         |           |                |            |                 |                  |          |  |
| 5                                    | QPSK   | 1       | 0         | 17.62          | 17.63      | 17.62           | 19               | 0        |  |
| 5                                    | QPSK   | 1       | 7         | 17.70          | 17.77      | 17.67           |                  |          |  |
| 5                                    | QPSK   | 1       | 14        | 17.70          | 17.77      | 17.67           |                  |          |  |
| 5                                    | QPSK   | 12      | 0         | 17.65          | 17.65      | 17.58           |                  |          |  |
| 5                                    | QPSK   | 12      | 7         | 17.71          | 17.63      | 17.63           |                  |          |  |
| 5                                    | QPSK   | 12      | 13        | 17.75          | 17.74      | 17.71           |                  |          |  |
| 5                                    | QPSK   | 25      | 0         | 17.70          | 17.68      | 17.78           |                  |          |  |
| 5                                    | QPSK   | 25      | 7         | 17.68          | 17.71      | 17.77           |                  |          |  |
| 5                                    | ISQAM  | 1       | 12        | 17.74          | 17.62      | 17.79           |                  |          |  |
| 5                                    | ISQAM  | 1       | 24        | 17.67          | 17.71      | 17.77           |                  |          |  |
| 5                                    | ISQAM  | 12      | 0         | 17.66          | 17.66      | 17.66           |                  |          |  |
| 5                                    | ISQAM  | 12      | 7         | 17.69          | 17.65      | 17.76           |                  |          |  |
| 5                                    | ISQAM  | 12      | 13        | 17.65          | 17.61      | 17.73           |                  |          |  |
| 5                                    | ISQAM  | 25      | 0         | 17.68          | 17.70      | 17.73           |                  |          |  |
| 5                                    | ISQAM  | 1       | 12        | 17.62          | 17.70      | 17.77           |                  |          |  |
| 5                                    | ISQAM  | 12      | 13        | 17.64          | 17.69      | 17.75           | 19               | 0        |  |
| 5                                    | ISQAM  | 12      | 13        | 17.64          | 17.67      | 17.73           |                  |          |  |
| 5                                    | ISQAM  | 25      | 0         | 17.60          | 17.79      | 17.78           |                  |          |  |
| 5                                    | ISQAM  | 1       | 0         | 17.76          | 17.72      | 17.70           |                  |          |  |
| 5                                    | ISQAM  | 1       | 7         | 17.70          | 17.73      | 17.73           |                  |          |  |
| 5                                    | ISQAM  | 12      | 0         | 17.66          | 17.73      | 17.68           |                  |          |  |
| 5                                    | ISQAM  | 12      | 7         | 17.69          | 17.76      | 17.76           |                  |          |  |
| 5                                    | ISQAM  | 12      | 13        | 17.63          | 17.74      | 17.74           |                  |          |  |
| 5                                    | ISQAM  | 25      | 0         | 17.62          | 17.73      | 17.67           |                  |          |  |
| 5                                    | ISQAM  | 25      | 7         | 17.66          | 17.76      | 17.76           |                  |          |  |
| 5                                    | ISQAM  | 15      | 0         | 17.63          | 17.63      | 17.63           | 19               | 0        |  |
| 5                                    | ISQAM  | 15      | 7         | 17.68          | 17.73      | 17.73           |                  |          |  |
| 5                                    | ISQAM  | 1       | 14        | 17.67          | 17.78      | 17.61           |                  |          |  |
| 5                                    | ISQAM  | 8       | 0         | 17.63          | 17.62      | 17.59           |                  |          |  |
| 5                                    | ISQAM  | 8       | 7         | 17.66          | 17.76      | 17.76           |                  |          |  |
| 5                                    | ISQAM  | 8       | 7         | 17.72          | 17.69      | 17.61           | 19               | 0        |  |
| 5                                    | ISQAM  | 15      | 0         | 17.56          | 17.73      | 17.70           |                  |          |  |
| 5                                    | ISQAM  | 15      | 7         | 17.60          | 17.70      | 17.70           |                  |          |  |
| 5                                    | ISQAM  | 1       | 8         | 17.69          | 17.65      | 17.57           |                  |          |  |
| 5                                    | ISQAM  | 1       | 14        | 17.61          | 17.66      | 17.63           |                  |          |  |
| 5                                    | ISQAM  | 8       | 0         | 17.60          | 17.69      | 17.69           |                  |          |  |
| 5                                    | ISQAM  | 8       | 4         | 17.62          | 17.66      | 17.62           |                  |          |  |
| 5                                    | ISQAM  | 8       | 7         | 17.70          | 17.66      | 17.70           |                  |          |  |
| 5                                    | ISQAM  | 8       | 7         | 17.70          | 17.66      | 17.61           | 19               | 0        |  |
| Channel                              |        |         |           |                |            |                 |                  |          |  |
| Frequency (MHz)                      |        |         |           |                |            |                 |                  |          |  |
| 1.4                                  | QPSK   | 1       | 0         | 17.64          | 17.72      | 17.61           | 19               | 0        |  |
| 1.4                                  | QPSK   | 1       | 0         | 17.70          | 17.64      | 17.76           |                  |          |  |
| 1.4                                  | QPSK   | 1       | 5         | 17.70          | 17.56      | 17.75           |                  |          |  |
| 1.4                                  | QPSK   | 1       | 10        | 17.66          | 17.76      | 17.66           |                  |          |  |
| 1.4                                  | QPSK   | 3       | 0         | 17.66          | 17.60      | 17.63           |                  |          |  |
| 1.4                                  | QPSK   | 3       | 7         | 17.69          | 17.79      | 17.69           |                  |          |  |
| 1.4                                  | ISQAM  | 1       | 0         | 17.62          | 17.78      | 17.64           |                  |          |  |
| 1.4                                  | ISQAM  | 1       | 3         | 17.75          | 17.63      | 17.73           |                  |          |  |
| 1.4                                  | ISQAM  | 3       | 0         | 17.64          | 17.74      | 17.64           |                  |          |  |
| 1.4                                  | ISQAM  | 3       | 1         | 17.64          | 17.64      | 17.66           |                  |          |  |
| 1.4                                  | ISQAM  | 6       | 0         | 17.70          | 17.78      | 17.60           |                  |          |  |
| 1.4                                  | ISQAM  | 1       | 0         | 17.66          | 17.70      | 17.77           |                  |          |  |
| 1.4                                  | ISQAM  | 1       | 3         | 17.70          | 17.62      | 17.71           |                  |          |  |
| 1.4                                  | ISQAM  | 1       | 5         | 17.76          | 17.77      | 17.64           |                  |          |  |
| 1.4                                  | ISQAM  | 3       | 3         | 17.74          | 17.74      | 17.66           |                  |          |  |
| 1.4                                  | ISQAM  | 6       | 0         | 17.60          | 17.78      | 17.66           |                  |          |  |
| 1.4                                  | ISQAM  | 6       | 7         | 17.72          | 17.67      | 17.67           |                  |          |  |
| 1.4                                  | ISQAM  | 3       | 1         | 17.71          | 17.69      | 17.68           |                  |          |  |
| 1.4                                  | ISQAM  | 3       | 1         | 17.71          | 17.72      | 17.60           |                  |          |  |
| 1.4                                  | ISQAM  | 6       | 0         | 17.66          | 17.66      | 17.66           |                  |          |  |



| Band 4_Ant 1    |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|-----------------|-----------|---------|-----------|------------------------|------------------------|------------------------|-------------------|----------|--|-------------------|----------|--|
| RF [MHz]        | Module ID | RF Size | RF Offset | Power Level CH / Freq. | Power Level CH / Freq. | Power Level CH / Freq. | Turn-up Int. (dB) | MFR (dB) |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
| Frequency (MHz) |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
| 20              | QPSK      | 1       | 0         | 16.27                  | 16.26                  | 16.76                  | 18                | 0        |  |                   |          |  |
| 20              | QPSK      | 1       | 49        | 16.74                  | 16.58                  | 16.80                  |                   |          |  |                   |          |  |
| 20              | QPSK      | 1       | 99        | 16.80                  | 16.74                  | 16.80                  |                   |          |  |                   |          |  |
| 20              | QPSK      | 50      | 24        | 16.86                  | 16.82                  | 16.82                  |                   |          |  |                   |          |  |
| 20              | QPSK      | 50      | 50        | 16.86                  | 16.74                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | QPSK      | 100     | 0         | 16.79                  | 16.79                  | 16.78                  | 18                | 0        |  |                   |          |  |
| 20              | ISQAM     | 1       | 0         | 16.71                  | 16.80                  | 16.83                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 1       | 49        | 16.82                  | 16.75                  | 16.77                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 1       | 99        | 16.82                  | 16.82                  | 16.83                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 50      | 24        | 16.82                  | 16.83                  | 16.83                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 50      | 50        | 16.70                  | 16.76                  | 16.78                  | 18                | 0        |  |                   |          |  |
| 20              | ISQAM     | 100     | 0         | 16.86                  | 16.76                  | 16.77                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 1       | 0         | 16.70                  | 16.77                  | 16.81                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 1       | 49        | 16.58                  | 16.78                  | 16.75                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 1       | 99        | 16.56                  | 16.81                  | 16.81                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 50      | 0         | 16.83                  | 16.77                  | 16.87                  | 18                | 0        |  |                   |          |  |
| 20              | ISQAM     | 50      | 24        | 16.58                  | 16.81                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 50      | 50        | 16.81                  | 16.76                  | 16.86                  |                   |          |  |                   |          |  |
| 20              | ISQAM     | 100     | 0         | 16.72                  | 16.75                  | 16.86                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 1       | 0         | 16.81                  | 16.84                  | 16.89                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 1       | 49        | 16.86                  | 16.81                  | 16.85                  | 18                | 0        |  |                   |          |  |
| 20              | 25QAM     | 1       | 99        | 16.86                  | 16.81                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 50      | 0         | 16.65                  | 16.72                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 50      | 24        | 16.62                  | 16.73                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 50      | 24        | 16.62                  | 16.75                  | 16.85                  |                   |          |  |                   |          |  |
| 20              | 25QAM     | 50      | 39        | 16.63                  | 16.87                  | 16.79                  | 18                | 0        |  |                   |          |  |
| 20              | 25QAM     | 100     | 0         | 16.67                  | 16.82                  | 16.87                  |                   |          |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|                 |           |         |           | 20000                  | 20075                  | 20090                  | Turn-up Int. (dB) | MFR (dB) |  |                   |          |  |
|                 |           |         |           | 1717.4                 | 1722.5                 | 1724.6                 |                   |          |  |                   |          |  |
| 15              | QPSK      | 1       | 0         | 16.37                  | 16.37                  | 16.84                  | 18                | 0        |  |                   |          |  |
| 15              | QPSK      | 1       | 49        | 16.36                  | 16.84                  | 16.81                  |                   |          |  |                   |          |  |
| 15              | QPSK      | 1       | 74        | 16.36                  | 16.86                  | 16.76                  |                   |          |  |                   |          |  |
| 15              | QPSK      | 36      | 0         | 16.37                  | 16.76                  | 16.81                  |                   |          |  |                   |          |  |
| 15              | QPSK      | 36      | 20        | 16.34                  | 16.80                  | 16.73                  |                   |          |  |                   |          |  |
| 15              | QPSK      | 36      | 39        | 16.34                  | 16.80                  | 16.84                  | 18                | 0        |  |                   |          |  |
| 15              | ISQAM     | 1       | 0         | 16.48                  | 16.72                  | 16.72                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 1       | 37        | 16.59                  | 16.83                  | 16.79                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 1       | 74        | 16.52                  | 16.81                  | 16.80                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 36      | 20        | 16.53                  | 16.78                  | 16.73                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 36      | 39        | 16.58                  | 16.72                  | 16.73                  | 18                | 0        |  |                   |          |  |
| 15              | ISQAM     | 75      | 0         | 16.85                  | 16.84                  | 16.71                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 1       | 0         | 16.50                  | 16.86                  | 16.86                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 1       | 37        | 16.63                  | 16.65                  | 16.74                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 1       | 74        | 16.49                  | 16.72                  | 16.76                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 36      | 0         | 16.62                  | 16.85                  | 16.83                  | 18                | 0        |  |                   |          |  |
| 15              | ISQAM     | 36      | 20        | 16.44                  | 16.76                  | 16.78                  |                   |          |  |                   |          |  |
| 15              | ISQAM     | 36      | 39        | 16.66                  | 16.74                  | 16.88                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 1       | 0         | 16.69                  | 16.86                  | 16.82                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 1       | 37        | 16.81                  | 16.89                  | 16.75                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 1       | 74        | 16.85                  | 16.80                  | 16.84                  | 18                | 0        |  |                   |          |  |
| 15              | 25QAM     | 50      | 0         | 16.65                  | 16.72                  | 16.85                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 50      | 24        | 16.62                  | 16.73                  | 16.85                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 50      | 24        | 16.62                  | 16.75                  | 16.85                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 50      | 39        | 16.63                  | 16.87                  | 16.79                  |                   |          |  |                   |          |  |
| 15              | 25QAM     | 100     | 0         | 16.67                  | 16.82                  | 16.87                  | 18                | 0        |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|                 |           |         |           | 20000                  | 20075                  | 20090                  |                   |          |  | Turn-up Int. (dB) | MFR (dB) |  |
|                 |           |         |           | 1717.4                 | 1722.5                 | 1724.6                 |                   |          |  |                   |          |  |
| 10              | QPSK      | 1       | 0         | 16.84                  | 16.84                  | 16.84                  | 18                | 0        |  |                   |          |  |
| 10              | QPSK      | 1       | 25        | 16.80                  | 16.80                  | 16.76                  |                   |          |  |                   |          |  |
| 10              | QPSK      | 1       | 49        | 16.82                  | 16.72                  | 16.71                  |                   |          |  |                   |          |  |
| 10              | QPSK      | 24      | 0         | 16.82                  | 16.72                  | 16.71                  |                   |          |  |                   |          |  |
| 10              | QPSK      | 25      | 12        | 16.84                  | 16.83                  | 16.78                  |                   |          |  |                   |          |  |
| 10              | QPSK      | 25      | 25        | 16.86                  | 16.71                  | 16.73                  | 18                | 0        |  |                   |          |  |
| 10              | QPSK      | 50      | 0         | 16.56                  | 16.77                  | 16.69                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 1       | 0         | 16.63                  | 16.76                  | 16.72                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 1       | 25        | 16.51                  | 16.84                  | 16.85                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 1       | 49        | 16.52                  | 16.75                  | 16.69                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 24      | 0         | 16.56                  | 16.76                  | 16.70                  | 18                | 0        |  |                   |          |  |
| 10              | ISQAM     | 24      | 12        | 16.53                  | 16.88                  | 16.78                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 25      | 25        | 16.64                  | 16.74                  | 16.72                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 50      | 0         | 16.84                  | 16.87                  | 16.84                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 1       | 0         | 16.83                  | 16.83                  | 16.88                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 1       | 25        | 16.44                  | 16.86                  | 16.74                  | 18                | 0        |  |                   |          |  |
| 10              | ISQAM     | 1       | 49        | 16.47                  | 16.77                  | 16.69                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 24      | 0         | 16.50                  | 16.84                  | 16.72                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 25      | 12        | 16.50                  | 16.84                  | 16.70                  |                   |          |  |                   |          |  |
| 10              | ISQAM     | 25      | 25        | 16.52                  | 16.73                  | 16.72                  |                   |          |  |                   |          |  |
| 10              | 25QAM     | 1       | 0         | 16.63                  | 16.76                  | 16.75                  | 18                | 0        |  |                   |          |  |
| 10              | 25QAM     | 1       | 25        | 16.84                  | 16.75                  | 16.84                  |                   |          |  |                   |          |  |
| 10              | 25QAM     | 1       | 49        | 16.58                  | 16.86                  | 16.77                  |                   |          |  |                   |          |  |
| 10              | 25QAM     | 25      | 0         | 16.63                  | 16.89                  | 16.70                  |                   |          |  |                   |          |  |
| 10              | 25QAM     | 25      | 25        | 16.87                  | 16.80                  | 16.77                  |                   |          |  |                   |          |  |
| 10              | 25QAM     | 25      | 25        | 16.70                  | 16.83                  | 16.74                  | 18                | 0        |  |                   |          |  |
| 10              | 25QAM     | 50      | 0         | 16.60                  | 16.71                  | 16.70                  |                   |          |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|                 |           |         |           | 19975                  | 19975                  | 20095                  | Turn-up Int. (dB) | MFR (dB) |  |                   |          |  |
|                 |           |         |           | 1717.2                 | 1722.5                 | 1725.5                 |                   |          |  |                   |          |  |
| 5               | QPSK      | 1       | 0         | 16.82                  | 16.82                  | 16.82                  | 18                | 0        |  |                   |          |  |
| 5               | QPSK      | 1       | 12        | 16.82                  | 16.72                  | 16.82                  |                   |          |  |                   |          |  |
| 5               | QPSK      | 1       | 24        | 16.86                  | 16.71                  | 16.76                  |                   |          |  |                   |          |  |
| 5               | QPSK      | 12      | 0         | 16.83                  | 16.78                  | 16.72                  |                   |          |  |                   |          |  |
| 5               | QPSK      | 12      | 7         | 16.88                  | 16.81                  | 16.76                  |                   |          |  |                   |          |  |
| 5               | QPSK      | 12      | 13        | 16.87                  | 16.70                  | 16.72                  | 18                | 0        |  |                   |          |  |
| 5               | QPSK      | 25      | 0         | 16.59                  | 16.89                  | 16.84                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 0         | 16.88                  | 16.76                  | 16.76                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 12        | 16.87                  | 16.81                  | 16.73                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 24        | 16.88                  | 16.76                  | 16.69                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 12      | 7         | 16.87                  | 16.76                  | 16.75                  | 18                | 0        |  |                   |          |  |
| 5               | ISQAM     | 12      | 13        | 16.85                  | 16.69                  | 16.73                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 24      | 0         | 16.86                  | 16.74                  | 16.76                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 0         | 16.86                  | 16.86                  | 16.89                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 12        | 16.46                  | 16.88                  | 16.89                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 1       | 24        | 16.83                  | 16.80                  | 16.71                  | 18                | 0        |  |                   |          |  |
| 5               | ISQAM     | 12      | 0         | 16.48                  | 16.73                  | 16.75                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 12      | 7         | 16.56                  | 16.78                  | 16.72                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 12      | 13        | 16.87                  | 16.73                  | 16.67                  |                   |          |  |                   |          |  |
| 5               | ISQAM     | 25      | 0         | 16.89                  | 16.81                  | 16.87                  |                   |          |  |                   |          |  |
| 5               | 25QAM     | 1       | 0         | 16.86                  | 16.76                  | 16.86                  | 18                | 0        |  |                   |          |  |
| 5               | 25QAM     | 1       | 12        | 16.85                  | 16.72                  | 16.82                  |                   |          |  |                   |          |  |
| 5               | 25QAM     | 1       | 24        | 16.49                  | 16.89                  | 16.74                  |                   |          |  |                   |          |  |
| 5               | 25QAM     | 12      | 0         | 16.80                  | 16.87                  | 16.78                  |                   |          |  |                   |          |  |
| 5               | 25QAM     | 12      | 7         | 16.82                  | 16.81                  | 16.79                  |                   |          |  |                   |          |  |
| 5               | 25QAM     | 12      | 13        | 16.80                  | 16.87                  | 16.78                  | 18                | 0        |  |                   |          |  |
| 5               | 25QAM     | 25      | 0         | 16.83                  | 16.75                  | 16.81                  |                   |          |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|                 |           |         |           | 19965                  | 19975                  | 20095                  | Turn-up Int. (dB) | MFR (dB) |  |                   |          |  |
|                 |           |         |           | 1717.1                 | 1722.5                 | 1725.5                 |                   |          |  |                   |          |  |
| 3               | QPSK      | 1       | 0         | 16.89                  | 16.89                  | 16.89                  | 18                | 0        |  |                   |          |  |
| 3               | QPSK      | 1       | 8         | 16.80                  | 16.80                  | 16.83                  |                   |          |  |                   |          |  |
| 3               | QPSK      | 1       | 14        | 16.82                  | 16.73                  | 16.69                  |                   |          |  |                   |          |  |
| 3               | QPSK      | 8       | 0         | 16.86                  | 16.86                  | 16.76                  |                   |          |  |                   |          |  |
| 3               | QPSK      | 8       | 7         | 16.89                  | 16.82                  | 16.70                  |                   |          |  |                   |          |  |
| 3               | QPSK      | 15      | 0         | 16.85                  | 16.88                  | 16.78                  | 18                | 0        |  |                   |          |  |
| 3               | ISQAM     | 1       | 0         | 16.87                  | 16.87                  | 16.76                  |                   |          |  |                   |          |  |
| 3               | ISQAM     | 1       | 8         | 16.81                  | 16.86                  | 16.88                  |                   |          |  |                   |          |  |
| 3               | ISQAM     | 1       | 14        | 16.81                  | 16.80                  | 16.80                  |                   |          |  |                   |          |  |
| 3               | ISQAM     | 8       | 0         | 16.83                  | 16.89                  | 16.71                  |                   |          |  |                   |          |  |
| 3               | ISQAM     | 8       | 4         | 16.84                  | 16.89                  | 16.89                  | 18                | 0        |  |                   |          |  |
| 3               | ISQAM     | 8       | 7         | 16.83                  | 16.87                  | 16.84                  |                   |          |  |                   |          |  |
| 3               | ISQAM     | 15      | 0         | 16.80                  | 16.89                  | 16.74                  |                   |          |  |                   |          |  |
| Channel         |           |         |           |                        |                        |                        |                   |          |  |                   |          |  |
|                 |           |         |           | 19970                  | 19975                  | 20095                  | Turn-up Int. (dB) | MFR (dB) |  |                   |          |  |
|                 |           |         |           | 1717.0                 | 1722.5                 | 1724.3                 |                   |          |  |                   |          |  |
| 1.4             | QPSK      | 1       | 0         | 16.82                  | 16.82                  | 16.82                  | 18                | 0        |  |                   |          |  |
| 1.4             | QPSK      | 1       | 5         | 16.84                  | 16.89                  | 16.79                  |                   |          |  |                   |          |  |
| 1.4             | QPSK      | 3       | 0         | 16.89                  | 16.73                  | 16.82                  |                   |          |  |                   |          |  |
| 1.4             | QPSK      | 3       | 1         | 16.82                  | 16.78                  | 16.72                  |                   |          |  |                   |          |  |
| 1.4             | ISQAM     | 1       | 0         | 16.86                  | 16.79                  | 16.77                  |                   |          |  |                   |          |  |
| 1.4             | ISQAM     | 3       | 0         | 16.93                  | 16.86                  | 16.89                  | 18                | 0        |  |                   |          |  |
| 1.4             | ISQAM     | 3       | 1         | 16.95                  | 16.87                  | 16.80                  |                   |          |  |                   |          |  |
| 1.4             | ISQAM     | 3       | 2         | 16.93                  | 16.87                  | 16.89                  |                   |          |  |                   |          |  |
| 1.4             | ISQAM     | 3       | 1         | 16.95                  | 16.86                  | 16.75                  |                   |          |  |                   |          |  |
| 1.4             | ISQAM     | 3       | 2         | 16.92                  | 16.88                  | 16.83                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 1       | 0         | 16.83                  | 16.71                  | 16.81                  | 18                | 0        |  |                   |          |  |
| 1.4             | 25QAM     | 1       | 5         | 16.81                  | 16.74                  | 16.76                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 0         | 16.84                  | 16.87                  | 16.80                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 1         | 16.49                  | 16.82                  | 16.69                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 2         | 16.89                  | 16.80                  | 16.84                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 1         | 16.83                  | 16.79                  | 16.75                  | 18                | 0        |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 2         | 16.89                  | 16.80                  | 16.84                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 1         | 16.83                  | 16.79                  | 16.75                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 2         | 16.89                  | 16.80                  | 16.84                  |                   |          |  |                   |          |  |
| 1.4             | 25QAM     | 3       | 1         | 16.83                  | 16.79                  | 16.75                  |                   |          |  |                   |          |  |

| Band 66_Ant 0   |            |         |           |                       |                      |                    |          |   |  |
|-----------------|------------|---------|-----------|-----------------------|----------------------|--------------------|----------|---|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Line Ch / Freq. | Power Max Ch / Freq. | Time-up Int. (dBm) | MFR (dB) |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 20              | QPSK       | 1       | 0         | 17.51                 | 17.40                | 17.37              | 18.4     | 0 |  |
| 20              | QPSK       | 1       | 49        | 17.51                 | 17.40                | 17.37              |          |   |  |
| 20              | QPSK       | 1       | 99        | 17.38                 | 17.36                | 17.23              |          |   |  |
| 20              | QPSK       | 50      | 0         | 17.38                 | 17.32                | 17.25              |          |   |  |
| 20              | QPSK       | 50      | 24        | 17.29                 | 17.42                | 17.25              |          |   |  |
| 20              | QPSK       | 50      | 50        | 17.38                 | 17.45                | 17.30              | 18.4     | 0 |  |
| 20              | QPSK       | 100     | 0         | 17.33                 | 17.38                | 17.33              |          |   |  |
| 20              | 16QAM      | 1       | 0         | 17.37                 | 17.50                | 17.28              |          |   |  |
| 20              | 16QAM      | 1       | 49        | 17.30                 | 17.38                | 17.32              | 18.4     | 0 |  |
| 20              | 16QAM      | 1       | 99        | 17.32                 | 17.45                | 17.22              |          |   |  |
| 20              | 16QAM      | 50      | 0         | 17.29                 | 17.47                | 17.23              |          |   |  |
| 20              | 16QAM      | 50      | 24        | 17.30                 | 17.40                | 17.31              | 18.4     | 0 |  |
| 20              | 16QAM      | 50      | 50        | 17.38                 | 17.49                | 17.34              |          |   |  |
| 20              | 16QAM      | 100     | 0         | 17.28                 | 17.38                | 17.23              |          |   |  |
| 20              | 84QAM      | 1       | 0         | 17.37                 | 17.42                | 17.31              | 18.4     | 0 |  |
| 20              | 84QAM      | 1       | 49        | 17.37                 | 17.48                | 17.24              |          |   |  |
| 20              | 84QAM      | 1       | 99        | 17.30                 | 17.48                | 17.25              |          |   |  |
| 20              | 84QAM      | 50      | 0         | 17.38                 | 17.44                | 17.34              |          |   |  |
| 20              | 84QAM      | 50      | 24        | 17.34                 | 17.37                | 17.24              | 18.4     | 0 |  |
| 20              | 84QAM      | 50      | 50        | 17.38                 | 17.49                | 17.30              |          |   |  |
| 20              | 84QAM      | 100     | 0         | 17.37                 | 17.43                | 17.27              |          |   |  |
| 20              | 256QAM     | 1       | 0         | 17.33                 | 17.49                | 17.27              | 18.4     | 0 |  |
| 20              | 256QAM     | 1       | 49        | 17.28                 | 17.42                | 17.25              |          |   |  |
| 20              | 256QAM     | 1       | 99        | 17.27                 | 17.44                | 17.28              |          |   |  |
| 20              | 256QAM     | 50      | 0         | 17.29                 | 17.41                | 17.23              | 18.4     | 0 |  |
| 20              | 256QAM     | 50      | 24        | 17.31                 | 17.50                | 17.28              |          |   |  |
| 20              | 256QAM     | 50      | 50        | 17.38                 | 17.43                | 17.23              |          |   |  |
| 20              | 256QAM     | 100     | 0         | 17.40                 | 17.43                | 17.38              |          |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 15              | QPSK       | 1       | 0         | 17.42                 | 17.33                | 17.22              | 18.4     | 0 |  |
| 15              | QPSK       | 1       | 37        | 17.43                 | 17.32                | 17.28              |          |   |  |
| 15              | QPSK       | 1       | 74        | 17.32                 | 17.28                | 17.16              |          |   |  |
| 15              | QPSK       | 36      | 0         | 17.35                 | 17.38                | 17.30              |          |   |  |
| 15              | QPSK       | 36      | 26        | 17.28                 | 17.38                | 17.28              | 18.4     | 0 |  |
| 15              | QPSK       | 36      | 36        | 17.33                 | 17.34                | 17.20              |          |   |  |
| 15              | QPSK       | 75      | 0         | 17.34                 | 17.34                | 17.22              |          |   |  |
| 15              | 16QAM      | 1       | 0         | 17.28                 | 17.41                | 17.23              |          |   |  |
| 15              | 16QAM      | 1       | 37        | 17.15                 | 17.28                | 17.21              | 18.4     | 0 |  |
| 15              | 16QAM      | 1       | 74        | 17.24                 | 17.41                | 17.08              |          |   |  |
| 15              | 16QAM      | 36      | 0         | 17.28                 | 17.43                | 17.11              |          |   |  |
| 15              | 16QAM      | 36      | 26        | 17.29                 | 17.35                | 17.22              | 18.4     | 0 |  |
| 15              | 16QAM      | 36      | 36        | 17.30                 | 17.35                | 17.28              |          |   |  |
| 15              | 16QAM      | 75      | 0         | 17.35                 | 17.38                | 17.19              |          |   |  |
| 15              | 84QAM      | 1       | 0         | 17.28                 | 17.51                | 17.20              |          |   |  |
| 15              | 84QAM      | 1       | 37        | 17.27                 | 17.33                | 17.13              | 18.4     | 0 |  |
| 15              | 84QAM      | 1       | 74        | 17.15                 | 17.40                | 17.15              |          |   |  |
| 15              | 84QAM      | 36      | 0         | 17.18                 | 17.39                | 17.20              |          |   |  |
| 15              | 84QAM      | 36      | 26        | 17.19                 | 17.23                | 17.16              | 18.4     | 0 |  |
| 15              | 84QAM      | 36      | 36        | 17.27                 | 17.39                | 17.25              |          |   |  |
| 15              | 84QAM      | 75      | 0         | 17.24                 | 17.36                | 17.17              |          |   |  |
| 15              | 256QAM     | 1       | 0         | 17.22                 | 17.43                | 17.22              | 18.4     | 0 |  |
| 15              | 256QAM     | 1       | 37        | 17.24                 | 17.37                | 17.21              |          |   |  |
| 15              | 256QAM     | 1       | 74        | 17.13                 | 17.43                | 17.17              |          |   |  |
| 15              | 256QAM     | 36      | 0         | 17.14                 | 17.37                | 17.15              | 18.4     | 0 |  |
| 15              | 256QAM     | 36      | 26        | 17.17                 | 17.39                | 17.20              |          |   |  |
| 15              | 256QAM     | 36      | 36        | 17.28                 | 17.42                | 17.11              |          |   |  |
| 15              | 256QAM     | 75      | 0         | 17.34                 | 17.44                | 17.27              |          |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 10              | QPSK       | 1       | 0         | 17.38                 | 17.28                | 17.28              | 18.4     | 0 |  |
| 10              | QPSK       | 1       | 25        | 17.41                 | 17.32                | 17.28              |          |   |  |
| 10              | QPSK       | 1       | 49        | 17.30                 | 17.29                | 17.13              |          |   |  |
| 10              | QPSK       | 25      | 0         | 17.30                 | 17.39                | 17.23              |          |   |  |
| 10              | QPSK       | 25      | 12        | 17.38                 | 17.38                | 17.20              | 18.4     | 0 |  |
| 10              | QPSK       | 25      | 25        | 17.33                 | 17.43                | 17.19              |          |   |  |
| 10              | QPSK       | 50      | 0         | 17.22                 | 17.21                | 17.19              |          |   |  |
| 10              | 16QAM      | 1       | 0         | 17.28                 | 17.48                | 17.27              |          |   |  |
| 10              | 16QAM      | 1       | 25        | 17.21                 | 17.35                | 17.21              | 18.4     | 0 |  |
| 10              | 16QAM      | 1       | 49        | 17.28                 | 17.41                | 17.18              |          |   |  |
| 10              | 16QAM      | 25      | 0         | 17.17                 | 17.43                | 17.08              |          |   |  |
| 10              | 16QAM      | 25      | 12        | 17.29                 | 17.38                | 17.24              | 18.4     | 0 |  |
| 10              | 16QAM      | 25      | 25        | 17.33                 | 17.45                | 17.26              |          |   |  |
| 10              | 16QAM      | 50      | 0         | 17.34                 | 17.35                | 17.23              |          |   |  |
| 10              | 84QAM      | 1       | 0         | 17.23                 | 17.30                | 17.17              | 18.4     | 0 |  |
| 10              | 84QAM      | 1       | 25        | 17.35                 | 17.35                | 17.10              |          |   |  |
| 10              | 84QAM      | 1       | 49        | 17.29                 | 17.47                | 17.24              |          |   |  |
| 10              | 84QAM      | 25      | 0         | 17.24                 | 17.29                | 17.24              | 18.4     | 0 |  |
| 10              | 84QAM      | 25      | 12        | 17.28                 | 17.31                | 17.13              |          |   |  |
| 10              | 84QAM      | 25      | 25        | 17.24                 | 17.34                | 17.24              |          |   |  |
| 10              | 84QAM      | 50      | 0         | 17.30                 | 17.35                | 17.12              |          |   |  |
| 10              | 256QAM     | 1       | 0         | 17.21                 | 17.35                | 17.21              | 18.4     | 0 |  |
| 10              | 256QAM     | 1       | 25        | 17.15                 | 17.28                | 17.17              |          |   |  |
| 10              | 256QAM     | 1       | 49        | 17.17                 | 17.39                | 17.17              |          |   |  |
| 10              | 256QAM     | 25      | 0         | 17.26                 | 17.32                | 17.12              | 18.4     | 0 |  |
| 10              | 256QAM     | 25      | 12        | 17.28                 | 17.39                | 17.22              |          |   |  |
| 10              | 256QAM     | 25      | 25        | 17.27                 | 17.39                | 17.20              |          |   |  |
| 10              | 256QAM     | 50      | 0         | 17.26                 | 17.32                | 17.21              |          |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 5               | QPSK       | 1       | 0         | 17.37                 | 17.38                | 17.32              | 18.4     | 0 |  |
| 5               | QPSK       | 1       | 12        | 17.40                 | 17.31                | 17.28              |          |   |  |
| 5               | QPSK       | 1       | 24        | 17.35                 | 17.21                | 17.15              |          |   |  |
| 5               | QPSK       | 12      | 0         | 17.33                 | 17.46                | 17.27              | 18.4     | 0 |  |
| 5               | QPSK       | 12      | 7         | 17.28                 | 17.31                | 17.28              |          |   |  |
| 5               | QPSK       | 12      | 13        | 17.21                 | 17.34                | 17.20              |          |   |  |
| 5               | QPSK       | 25      | 0         | 17.29                 | 17.27                | 17.25              |          |   |  |
| 5               | 16QAM      | 1       | 0         | 17.35                 | 17.38                | 17.20              |          |   |  |
| 5               | 16QAM      | 1       | 12        | 17.28                 | 17.28                | 17.30              | 18.4     | 0 |  |
| 5               | 16QAM      | 12      | 0         | 17.20                 | 17.34                | 17.15              |          |   |  |
| 5               | 16QAM      | 12      | 7         | 17.15                 | 17.27                | 17.18              | 18.4     | 0 |  |
| 5               | 16QAM      | 12      | 13        | 17.35                 | 17.48                | 17.25              |          |   |  |
| 5               | 84QAM      | 1       | 0         | 17.28                 | 17.32                | 17.23              |          |   |  |
| 5               | 84QAM      | 1       | 0         | 17.28                 | 17.29                | 17.16              | 18.4     | 0 |  |
| 5               | 84QAM      | 1       | 12        | 17.23                 | 17.42                | 17.09              |          |   |  |
| 5               | 84QAM      | 1       | 24        | 17.27                 | 17.39                | 17.14              |          |   |  |
| 5               | 84QAM      | 12      | 0         | 17.11                 | 17.36                | 17.30              | 18.4     | 0 |  |
| 5               | 84QAM      | 12      | 7         | 17.21                 | 17.31                | 17.14              |          |   |  |
| 5               | 84QAM      | 12      | 13        | 17.33                 | 17.38                | 17.22              |          |   |  |
| 5               | 84QAM      | 25      | 0         | 17.31                 | 17.31                | 17.20              |          |   |  |
| 5               | 256QAM     | 1       | 0         | 17.31                 | 17.42                | 17.13              | 18.4     | 0 |  |
| 5               | 256QAM     | 1       | 12        | 17.20                 | 17.41                | 17.12              |          |   |  |
| 5               | 256QAM     | 1       | 24        | 17.23                 | 17.41                | 17.16              |          |   |  |
| 5               | 256QAM     | 12      | 0         | 17.25                 | 17.39                | 17.10              | 18.4     | 0 |  |
| 5               | 256QAM     | 12      | 7         | 17.29                 | 17.36                | 17.24              |          |   |  |
| 5               | 256QAM     | 12      | 13        | 17.27                 | 17.42                | 17.19              |          |   |  |
| 5               | 256QAM     | 25      | 0         | 17.27                 | 17.30                | 17.21              |          |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 3               | QPSK       | 1       | 0         | 17.48                 | 17.35                | 17.28              | 18.4     | 0 |  |
| 3               | QPSK       | 1       | 8         | 17.41                 | 17.31                | 17.24              |          |   |  |
| 3               | QPSK       | 1       | 14        | 17.28                 | 17.26                | 17.19              |          |   |  |
| 3               | QPSK       | 8       | 0         | 17.35                 | 17.50                | 17.25              | 18.4     | 0 |  |
| 3               | QPSK       | 8       | 4         | 17.34                 | 17.31                | 17.18              |          |   |  |
| 3               | QPSK       | 8       | 7         | 17.30                 | 17.43                | 17.21              |          |   |  |
| 3               | QPSK       | 15      | 0         | 17.31                 | 17.29                | 17.23              |          |   |  |
| 3               | 16QAM      | 1       | 0         | 17.33                 | 17.48                | 17.25              | 18.4     | 0 |  |
| 3               | 16QAM      | 1       | 8         | 17.15                 | 17.34                | 17.20              |          |   |  |
| 3               | 16QAM      | 1       | 14        | 17.28                 | 17.44                | 17.20              |          |   |  |
| 3               | 16QAM      | 8       | 0         | 17.28                 | 17.37                | 17.19              | 18.4     | 0 |  |
| 3               | 16QAM      | 8       | 4         | 17.17                 | 17.39                | 17.23              |          |   |  |
| 3               | 84QAM      | 1       | 0         | 17.38                 | 17.47                | 17.20              |          |   |  |
| 3               | 84QAM      | 1       | 8         | 17.27                 | 17.38                | 17.13              | 18.4     | 0 |  |
| 3               | 84QAM      | 1       | 14        | 17.29                 | 17.40                | 17.24              |          |   |  |
| 3               | 84QAM      | 8       | 0         | 17.18                 | 17.43                | 17.20              |          |   |  |
| 3               | 84QAM      | 8       | 4         | 17.30                 | 17.35                | 17.13              | 18.4     | 0 |  |
| 3               | 84QAM      | 8       | 7         | 17.31                 | 17.44                | 17.21              |          |   |  |
| 3               | 256QAM     | 1       | 0         | 17.30                 | 17.39                | 17.13              | 18.4     | 0 |  |
| 3               | 256QAM     | 1       | 8         | 17.16                 | 17.41                | 17.21              |          |   |  |
| 3               | 256QAM     | 1       | 14        | 17.13                 | 17.39                | 17.19              |          |   |  |
| 3               | 256QAM     | 8       | 0         | 17.26                 | 17.35                | 17.08              | 18.4     | 0 |  |
| 3               | 256QAM     | 8       | 4         | 17.21                 | 17.48                | 17.25              |          |   |  |
| 3               | 256QAM     | 8       | 7         | 17.29                 | 17.29                | 17.19              |          |   |  |
| 3               | 256QAM     | 15      | 0         | 17.29                 | 17.32                | 17.21              |          |   |  |
| Channel         |            |         |           |                       |                      |                    |          |   |  |
| Frequency (MHz) |            |         |           |                       |                      |                    |          |   |  |
| 1.4             | QPSK       | 1       | 0         | 17.40                 | 17.37                | 17.35              | 18.4     | 0 |  |
| 1.4             | QPSK       | 1       | 3         | 17.44                 | 17.35                | 17.31              |          |   |  |
| 1.4             | QPSK       | 1       | 5         | 17.24                 | 17.25                | 17.11              |          |   |  |
| 1.4             | QPSK       | 3       | 0         | 17.35                 | 17.40                | 17.27              | 18.4     | 0 |  |
| 1.4             | QPSK       | 3       | 1         | 17.36                 | 17.35                | 17.24              |          |   |  |
| 1.4             | QPSK       | 3       | 3         | 17.24                 | 17.31                | 17.22              |          |   |  |
| 1.4             | QPSK       | 6       | 0         | 17.38                 | 17.31                | 17.23              | 18.4     | 0 |  |
| 1.4             | 16QAM      | 1       | 0         | 17.38                 | 17.40                | 17.15              |          |   |  |
| 1.4             | 16QAM      | 1       | 3         | 17.17                 | 17.35                | 17.28              | 18.4     | 0 |  |
| 1.4             | 16QAM      | 1       | 5         | 17.24                 | 17.37                | 17.22              |          |   |  |
| 1.4             | 16QAM      | 3       | 0         | 17.19                 | 17.37                | 17.12              |          |   |  |
| 1.4             | 16QAM      | 3       | 1         | 17.24                 | 17.37                | 17.28              |          |   |  |
| 1.4             | 16QAM      | 3       | 3         | 17.27                 | 17.34                | 17.22              | 18.4     | 0 |  |
| 1.4             | 16QAM      | 6       | 0         | 17.29                 | 17.39                | 17.26              |          |   |  |
| 1.4             | 16QAM      | 6       | 1         | 17.27                 | 17.35                | 17.16              | 18.4     | 0 |  |
| 1.4             | 16QAM      | 6       | 3         | 17.28                 | 17.32                | 17.22              |          |   |  |
| 1.4             | 84QAM      | 1       | 0         | 17.24                 | 17.45                | 17.18              |          |   |  |
| 1.4             | 84QAM      | 1       | 3         | 17.22                 | 17.43                | 17.23              | 18.4     | 0 |  |
| 1.4             | 84QAM      | 1       | 5         | 17.25                 | 17.46                | 17.23              |          |   |  |
| 1.4             | 84QAM      | 3       | 0         | 17.28                 | 17.47                | 17.17              |          |   |  |
| 1.4             | 84QAM      | 3       | 1         | 17.30                 | 17.40                | 17.16              | 18.4     | 0 |  |
| 1.4             | 84QAM      | 3       | 3         | 17.27                 | 17.36                |                    |          |   |  |

| Band 48_Ant 4   |            |         |           |                       |                              |                               |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 16.89                 | 16.74                        | 16.81                         | 16.78                  | 18.2                | 0        |  |
| 20              | QPSK       | 1       | 49        | 16.95                 | 16.87                        | 16.93                         | 17.04                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 16.83                 | 16.81                        | 16.90                         | 16.76                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 16.90                 | 16.84                        | 16.96                         | 16.97                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 16.87                 | 16.81                        | 16.85                         | 16.82                  | 18.2                | 0        |  |
| 20              | QPSK       | 50      | 50        | 16.87                 | 16.75                        | 16.84                         | 16.88                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 16.80                 | 16.83                        | 16.86                         | 16.89                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 16.90                 | 16.73                        | 16.89                         | 16.88                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 16.82                 | 16.72                        | 16.91                         | 16.83                  | 18.2                | 0        |  |
| 20              | 16QAM      | 1       | 99        | 16.82                 | 16.85                        | 16.80                         | 16.78                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 16.86                 | 16.80                        | 16.82                         | 16.85                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 16.80                 | 16.77                        | 16.81                         | 16.87                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 16.78                 | 16.78                        | 16.87                         | 16.88                  | 18.2                | 0        |  |
| 20              | 16QAM      | 100     | 0         | 16.77                 | 16.78                        | 16.78                         | 16.77                  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 16.88                 | 16.76                        | 16.80                         | 16.75                  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 16.89                 | 16.77                        | 16.80                         | 16.76                  |                     |          |  |
| 20              | 64QAM      | 1       | 99        | 16.78                 | 16.81                        | 16.91                         | 16.78                  | 18.2                | 0        |  |
| 20              | 64QAM      | 50      | 0         | 16.86                 | 16.76                        | 16.80                         | 16.86                  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 16.77                 | 16.84                        | 16.81                         | 16.81                  |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 16.85                 | 16.82                        | 16.87                         | 16.88                  |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 16.84                 | 16.85                        | 16.83                         | 16.83                  | 18.2                | 0        |  |
| 20              | 256QAM     | 1       | 0         | 16.79                 | 16.77                        | 16.78                         | 16.79                  |                     |          |  |
| 20              | 256QAM     | 1       | 49        | 16.90                 | 16.77                        | 16.82                         | 16.84                  |                     |          |  |
| 20              | 256QAM     | 1       | 99        | 16.90                 | 16.75                        | 16.80                         | 16.78                  |                     |          |  |
| 20              | 256QAM     | 50      | 0         | 16.81                 | 16.79                        | 16.90                         | 16.74                  | 18.2                | 0        |  |
| 20              | 256QAM     | 50      | 24        | 16.86                 | 16.77                        | 16.83                         | 16.76                  |                     |          |  |
| 20              | 256QAM     | 50      | 50        | 16.90                 | 16.85                        | 16.83                         | 16.87                  |                     |          |  |
| 20              | 256QAM     | 100     | 0         | 16.83                 | 16.85                        | 16.78                         | 16.86                  |                     |          |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 16.76                 | 16.71                        | 16.72                         | 16.63                  | 18.2                | 0        |  |
| 15              | QPSK       | 1       | 37        | 16.90                 | 16.66                        | 16.88                         | 17.00                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 16.76                 | 16.86                        | 16.78                         | 16.67                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 16.89                 | 16.73                        | 16.95                         | 16.86                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 16.85                 | 16.72                        | 16.84                         | 16.77                  | 18.2                | 0        |  |
| 15              | QPSK       | 36      | 39        | 16.85                 | 16.66                        | 16.71                         | 16.73                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 16.79                 | 16.76                        | 16.72                         | 16.85                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 16.82                 | 16.65                        | 16.81                         | 16.87                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 16.71                 | 16.71                        | 16.76                         | 16.78                  | 18.2                | 0        |  |
| 15              | 16QAM      | 1       | 74        | 16.75                 | 16.73                        | 16.73                         | 16.73                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 16.74                 | 16.76                        | 16.75                         | 16.82                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 16.71                 | 16.66                        | 16.66                         | 16.80                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 16.74                 | 16.72                        | 16.74                         | 16.78                  | 18.2                | 0        |  |
| 15              | 16QAM      | 75      | 0         | 16.73                 | 16.67                        | 16.68                         | 16.75                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 16.80                 | 16.64                        | 16.68                         | 16.64                  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 16.81                 | 16.65                        | 16.69                         | 16.70                  |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 16.65                 | 16.80                        | 16.89                         | 16.62                  | 18.2                | 0        |  |
| 15              | 64QAM      | 36      | 0         | 16.75                 | 16.66                        | 16.79                         | 16.80                  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 16.62                 | 16.73                        | 16.66                         | 16.67                  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 16.79                 | 16.69                        | 16.80                         | 16.82                  |                     |          |  |
| 15              | 64QAM      | 75      | 0         | 16.79                 | 16.79                        | 16.72                         | 16.81                  | 18.2                | 0        |  |
| 15              | 256QAM     | 1       | 0         | 16.77                 | 16.66                        | 16.72                         | 16.69                  |                     |          |  |
| 15              | 256QAM     | 1       | 37        | 16.86                 | 16.65                        | 16.75                         | 16.74                  |                     |          |  |
| 15              | 256QAM     | 1       | 74        | 16.88                 | 16.68                        | 16.80                         | 16.70                  |                     |          |  |
| 15              | 256QAM     | 36      | 0         | 16.66                 | 16.74                        | 16.86                         | 16.80                  | 18.2                | 0        |  |
| 15              | 256QAM     | 36      | 20        | 16.71                 | 16.72                        | 16.82                         | 16.71                  |                     |          |  |
| 15              | 256QAM     | 36      | 39        | 16.89                 | 16.74                        | 16.76                         | 16.78                  |                     |          |  |
| 15              | 256QAM     | 75      | 0         | 16.82                 | 16.81                        | 16.74                         | 16.85                  |                     |          |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |
| 10              | QPSK       | 1       | 0         | 16.83                 | 16.73                        | 16.68                         | 16.77                  | 18.2                | 0        |  |
| 10              | QPSK       | 1       | 25        | 16.95                 | 16.84                        | 16.82                         | 17.03                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 16.71                 | 16.78                        | 16.79                         | 16.71                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 16.85                 | 16.82                        | 16.86                         | 16.96                  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 16.79                 | 16.74                        | 16.83                         | 16.77                  | 18.2                | 0        |  |
| 10              | QPSK       | 25      | 25        | 16.83                 | 16.71                        | 16.81                         | 16.85                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 16.69                 | 16.73                        | 16.71                         | 16.74                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 16.79                 | 16.59                        | 16.75                         | 16.81                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 16.77                 | 16.65                        | 16.77                         | 16.76                  | 18.2                | 0        |  |
| 10              | 16QAM      | 1       | 49        | 16.77                 | 16.82                        | 16.71                         | 16.66                  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 16.83                 | 16.77                        | 16.69                         | 16.72                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 16.75                 | 16.74                        | 16.67                         | 16.80                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 16.67                 | 16.77                        | 16.77                         | 16.73                  | 18.2                | 0        |  |
| 10              | 16QAM      | 50      | 0         | 16.66                 | 16.69                        | 16.75                         | 16.64                  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 16.75                 | 16.66                        | 16.72                         | 16.69                  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 16.86                 | 16.63                        | 16.69                         | 16.70                  |                     |          |  |
| 10              | 64QAM      | 1       | 49        | 16.70                 | 16.80                        | 16.88                         | 16.68                  | 18.2                | 0        |  |
| 10              | 64QAM      | 25      | 0         | 16.71                 | 16.68                        | 16.76                         | 16.83                  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 16.62                 | 16.71                        | 16.80                         | 16.78                  |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 16.73                 | 16.77                        | 16.74                         | 16.75                  |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 16.72                 | 16.74                        | 16.79                         | 16.74                  | 18.2                | 0        |  |
| 10              | 256QAM     | 1       | 0         | 16.73                 | 16.62                        | 16.69                         | 16.66                  |                     |          |  |
| 10              | 256QAM     | 1       | 25        | 16.79                 | 16.73                        | 16.72                         | 16.69                  |                     |          |  |
| 10              | 256QAM     | 1       | 49        | 16.88                 | 16.68                        | 16.80                         | 16.74                  |                     |          |  |
| 10              | 256QAM     | 25      | 0         | 16.74                 | 16.64                        | 16.81                         | 16.63                  | 18.2                | 0        |  |
| 10              | 256QAM     | 25      | 12        | 16.84                 | 16.74                        | 16.68                         | 16.68                  |                     |          |  |
| 10              | 256QAM     | 25      | 25        | 16.87                 | 16.82                        | 16.78                         | 16.78                  |                     |          |  |
| 10              | 256QAM     | 50      | 0         | 16.77                 | 16.74                        | 16.74                         | 16.72                  |                     |          |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 16.84                 | 16.59                        | 16.80                         | 16.64                  | 18.2                | 0        |  |
| 5               | QPSK       | 1       | 12        | 16.97                 | 16.73                        | 16.85                         | 16.99                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 16.79                 | 16.66                        | 16.85                         | 16.62                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 16.86                 | 16.74                        | 16.93                         | 16.93                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 16.81                 | 16.78                        | 16.73                         | 16.71                  | 18.2                | 0        |  |
| 5               | QPSK       | 12      | 13        | 16.80                 | 16.66                        | 16.77                         | 16.84                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 16.75                 | 16.79                        | 16.84                         | 16.85                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 16.82                 | 16.67                        | 16.79                         | 16.73                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 16.81                 | 16.65                        | 16.84                         | 16.78                  | 18.2                | 0        |  |
| 5               | 16QAM      | 1       | 24        | 16.73                 | 16.81                        | 16.78                         | 16.68                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 16.81                 | 16.70                        | 16.72                         | 16.77                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 16.68                 | 16.76                        | 16.69                         | 16.80                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 16.63                 | 16.67                        | 16.83                         | 16.73                  | 18.2                | 0        |  |
| 5               | 16QAM      | 25      | 0         | 16.72                 | 16.70                        | 16.66                         | 16.70                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 16.77                 | 16.75                        | 16.65                         | 16.73                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 16.86                 | 16.73                        | 16.68                         | 16.72                  |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 16.75                 | 16.77                        | 16.81                         | 16.75                  | 18.2                | 0        |  |
| 5               | 64QAM      | 12      | 0         | 16.79                 | 16.61                        | 16.78                         | 16.82                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 16.73                 | 16.73                        | 16.67                         | 16.71                  |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 16.71                 | 16.73                        | 16.84                         | 16.86                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 16.80                 | 16.71                        | 16.79                         | 16.68                  | 18.2                | 0        |  |
| 5               | 256QAM     | 1       | 0         | 16.79                 | 16.71                        | 16.71                         | 16.69                  |                     |          |  |
| 5               | 256QAM     | 1       | 12        | 16.75                 | 16.65                        | 16.73                         | 16.83                  |                     |          |  |
| 5               | 256QAM     | 1       | 24        | 16.89                 | 16.60                        | 16.75                         | 16.64                  |                     |          |  |
| 5               | 256QAM     | 12      | 0         | 16.72                 | 16.65                        | 16.79                         | 16.64                  | 18.2                | 0        |  |
| 5               | 256QAM     | 12      | 7         | 16.75                 | 16.65                        | 16.74                         | 16.75                  |                     |          |  |
| 5               | 256QAM     | 12      | 13        | 16.83                 | 16.78                        | 16.82                         | 16.81                  |                     |          |  |
| 5               | 256QAM     | 25      | 0         | 16.81                 | 16.72                        | 16.77                         | 16.74                  |                     |          |  |

| Band 48_Ant 8   |            |            |              |                                |                                   |                                           |                                 |                        |             |  |  |
|-----------------|------------|------------|--------------|--------------------------------|-----------------------------------|-------------------------------------------|---------------------------------|------------------------|-------------|--|--|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Power<br>Low<br>Ch.<br>/ Freq. | Power<br>Middle<br>Ch.<br>/ Freq. | Power<br>High<br>Middle<br>Ch.<br>/ Freq. | Power<br>High<br>Ch.<br>/ Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel         |            |            |              | 55340                          | 55830                             | 56150                                     | 56640                           |                        |             |  |  |
| Frequency (MHz) |            |            |              | 3560                           | 3609                              | 3641                                      | 3690                            |                        |             |  |  |
| 20              | QPSK       | 1          | 0            | 16.01                          | 15.91                             | 16.03                                     | 16.04                           | 17.7                   | 0           |  |  |
| 20              | QPSK       | 1          | 49           | 16.09                          | 16.14                             | 16.08                                     | 16.25                           |                        |             |  |  |
| 20              | QPSK       | 1          | 99           | 16.02                          | 16.02                             | 16.02                                     | 16.01                           |                        |             |  |  |
| 20              | QPSK       | 50         | 0            | 16.04                          | 16.05                             | 16.04                                     | 16.16                           |                        |             |  |  |
| 20              | QPSK       | 50         | 24           | 16.02                          | 16.01                             | 16.02                                     | 16.13                           | 17.7                   | 0           |  |  |
| 20              | QPSK       | 50         | 50           | 15.94                          | 16.04                             | 15.99                                     | 16.10                           |                        |             |  |  |
| 20              | QPSK       | 100        | 0            | 15.92                          | 16.01                             | 16.03                                     | 16.04                           |                        |             |  |  |
| 20              | 16QAM      | 1          | 0            | 15.96                          | 15.98                             | 16.05                                     | 16.15                           |                        |             |  |  |
| 20              | 16QAM      | 1          | 49           | 16.05                          | 16.11                             | 16.01                                     | 16.02                           | 17.7                   | 0           |  |  |
| 20              | 16QAM      | 1          | 99           | 15.96                          | 16.10                             | 16.09                                     | 16.10                           |                        |             |  |  |
| 20              | 16QAM      | 50         | 0            | 15.93                          | 16.04                             | 16.10                                     | 16.10                           |                        |             |  |  |
| 20              | 16QAM      | 50         | 24           | 15.91                          | 15.98                             | 16.00                                     | 16.08                           |                        |             |  |  |
| 20              | 16QAM      | 50         | 50           | 15.96                          | 16.11                             | 16.11                                     | 16.08                           | 17.7                   | 0           |  |  |
| 20              | 16QAM      | 100        | 0            | 16.01                          | 15.99                             | 16.03                                     | 16.08                           |                        |             |  |  |
| 20              | 64QAM      | 1          | 0            | 15.92                          | 16.10                             | 15.99                                     | 16.06                           |                        |             |  |  |
| 20              | 64QAM      | 1          | 49           | 16.00                          | 16.07                             | 16.10                                     | 16.05                           | 17.7                   | 0           |  |  |
| 20              | 64QAM      | 1          | 99           | 16.00                          | 15.99                             | 16.10                                     | 16.07                           |                        |             |  |  |
| 20              | 64QAM      | 50         | 0            | 15.91                          | 16.00                             | 16.09                                     | 16.14                           |                        |             |  |  |
| 20              | 64QAM      | 50         | 24           | 15.95                          | 15.97                             | 16.02                                     | 16.05                           |                        |             |  |  |
| 20              | 64QAM      | 50         | 50           | 15.99                          | 16.01                             | 16.02                                     | 16.04                           | 17.7                   | 0           |  |  |
| 20              | 64QAM      | 100        | 0            | 16.03                          | 16.09                             | 16.07                                     | 16.01                           |                        |             |  |  |
| 20              | 256QAM     | 1          | 0            | 15.97                          | 15.98                             | 16.09                                     | 16.09                           |                        |             |  |  |
| 20              | 256QAM     | 1          | 49           | 16.02                          | 16.09                             | 16.11                                     | 16.04                           | 17.7                   | 0           |  |  |
| 20              | 256QAM     | 1          | 99           | 15.91                          | 15.99                             | 15.99                                     | 16.07                           |                        |             |  |  |
| 20              | 256QAM     | 50         | 0            | 16.05                          | 16.07                             | 16.05                                     | 16.15                           |                        |             |  |  |
| 20              | 256QAM     | 50         | 24           | 15.94                          | 15.97                             | 16.10                                     | 16.11                           |                        |             |  |  |
| 20              | 256QAM     | 50         | 50           | 16.02                          | 16.04                             | 15.98                                     | 16.07                           | 17.7                   | 0           |  |  |
| 20              | 256QAM     | 100        | 0            | 15.95                          | 16.01                             | 16.02                                     | 16.05                           |                        |             |  |  |
| Channel         |            |            |              | 55315                          | 55820                             | 56160                                     | 56665                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3557.5                         | 3608                              | 3642                                      | 3692.5                          |                        |             |  |  |
| 15              | QPSK       | 1          | 0            | 15.94                          | 15.77                             | 16.02                                     | 15.99                           | 17.7                   | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 16.01                          | 16.08                             | 16.02                                     | 16.18                           |                        |             |  |  |
| 15              | QPSK       | 1          | 74           | 15.96                          | 15.89                             | 15.87                                     | 15.96                           |                        |             |  |  |
| 15              | QPSK       | 36         | 0            | 15.90                          | 15.98                             | 16.02                                     | 16.09                           |                        |             |  |  |
| 15              | QPSK       | 36         | 20           | 15.90                          | 15.90                             | 15.89                                     | 16.07                           | 17.7                   | 0           |  |  |
| 15              | QPSK       | 36         | 39           | 15.87                          | 15.95                             | 15.88                                     | 16.03                           |                        |             |  |  |
| 15              | QPSK       | 75         | 0            | 15.82                          | 15.93                             | 15.93                                     | 15.95                           |                        |             |  |  |
| 15              | 16QAM      | 1          | 0            | 15.82                          | 15.97                             | 15.92                                     | 16.11                           |                        |             |  |  |
| 15              | 16QAM      | 1          | 37           | 15.93                          | 16.04                             | 15.99                                     | 15.97                           | 17.7                   | 0           |  |  |
| 15              | 16QAM      | 1          | 74           | 15.81                          | 16.06                             | 16.07                                     | 16.04                           |                        |             |  |  |
| 15              | 16QAM      | 36         | 0            | 15.80                          | 15.96                             | 15.95                                     | 16.03                           |                        |             |  |  |
| 15              | 16QAM      | 36         | 20           | 15.82                          | 15.86                             | 15.95                                     | 16.06                           |                        |             |  |  |
| 15              | 16QAM      | 36         | 39           | 15.92                          | 16.03                             | 16.03                                     | 15.93                           | 17.7                   | 0           |  |  |
| 15              | 16QAM      | 75         | 0            | 15.90                          | 15.98                             | 15.99                                     | 16.06                           |                        |             |  |  |
| 15              | 64QAM      | 1          | 0            | 15.86                          | 16.05                             | 15.91                                     | 15.99                           |                        |             |  |  |
| 15              | 64QAM      | 1          | 37           | 15.90                          | 15.92                             | 16.05                                     | 15.97                           | 17.7                   | 0           |  |  |
| 15              | 64QAM      | 1          | 74           | 15.93                          | 15.97                             | 16.08                                     | 16.03                           |                        |             |  |  |
| 15              | 64QAM      | 36         | 0            | 15.79                          | 15.98                             | 15.95                                     | 16.03                           |                        |             |  |  |
| 15              | 64QAM      | 36         | 20           | 15.88                          | 15.91                             | 15.97                                     | 16.02                           |                        |             |  |  |
| 15              | 64QAM      | 36         | 39           | 15.93                          | 15.87                             | 15.92                                     | 15.93                           | 17.7                   | 0           |  |  |
| 15              | 64QAM      | 75         | 0            | 15.93                          | 15.98                             | 16.06                                     | 15.90                           |                        |             |  |  |
| 15              | 256QAM     | 1          | 0            | 15.92                          | 15.94                             | 16.00                                     | 16.05                           |                        |             |  |  |
| 15              | 256QAM     | 1          | 37           | 16.00                          | 16.05                             | 15.98                                     | 15.99                           | 17.7                   | 0           |  |  |
| 15              | 256QAM     | 1          | 74           | 15.82                          | 15.89                             | 15.85                                     | 16.00                           |                        |             |  |  |
| 15              | 256QAM     | 36         | 0            | 16.01                          | 15.96                             | 15.91                                     | 16.07                           |                        |             |  |  |
| 15              | 256QAM     | 36         | 20           | 15.85                          | 15.87                             | 15.99                                     | 16.04                           |                        |             |  |  |
| 15              | 256QAM     | 36         | 39           | 15.86                          | 16.02                             | 15.94                                     | 15.96                           | 17.7                   | 0           |  |  |
| 15              | 256QAM     | 75         | 0            | 15.89                          | 15.88                             | 15.90                                     | 15.98                           |                        |             |  |  |
| Channel         |            |            |              | 55290                          | 55815                             | 56165                                     | 56690                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3555                           | 3607.5                            | 3642.5                                    | 3695                            |                        |             |  |  |
| 10              | QPSK       | 1          | 0            | 15.87                          | 15.81                             | 16.00                                     | 15.95                           | 17.7                   | 0           |  |  |
| 10              | QPSK       | 1          | 25           | 16.07                          | 16.13                             | 15.93                                     | 16.21                           |                        |             |  |  |
| 10              | QPSK       | 1          | 49           | 15.94                          | 15.89                             | 15.95                                     | 15.92                           |                        |             |  |  |
| 10              | QPSK       | 25         | 0            | 16.00                          | 16.04                             | 15.91                                     | 16.13                           |                        |             |  |  |
| 10              | QPSK       | 25         | 12           | 15.87                          | 15.95                             | 16.01                                     | 16.10                           | 17.7                   | 0           |  |  |
| 10              | QPSK       | 25         | 25           | 15.89                          | 15.94                             | 15.93                                     | 16.09                           |                        |             |  |  |
| 10              | QPSK       | 50         | 0            | 15.78                          | 15.98                             | 15.90                                     | 15.97                           |                        |             |  |  |
| 10              | 16QAM      | 1          | 0            | 15.93                          | 15.83                             | 15.98                                     | 16.08                           |                        |             |  |  |
| 10              | 16QAM      | 1          | 25           | 15.91                          | 15.97                             | 15.94                                     | 15.97                           | 17.7                   | 0           |  |  |
| 10              | 16QAM      | 1          | 49           | 15.94                          | 16.04                             | 16.00                                     | 15.95                           |                        |             |  |  |
| 10              | 16QAM      | 25         | 0            | 15.88                          | 15.97                             | 16.05                                     | 16.07                           |                        |             |  |  |
| 10              | 16QAM      | 25         | 12           | 15.89                          | 15.84                             | 15.86                                     | 16.05                           |                        |             |  |  |
| 10              | 16QAM      | 25         | 25           | 15.94                          | 16.08                             | 16.05                                     | 15.99                           | 17.7                   | 0           |  |  |
| 10              | 16QAM      | 50         | 0            | 15.99                          | 15.89                             | 15.93                                     | 16.03                           |                        |             |  |  |
| 10              | 64QAM      | 1          | 0            | 15.91                          | 16.09                             | 15.95                                     | 16.04                           |                        |             |  |  |
| 10              | 64QAM      | 1          | 25           | 15.89                          | 15.93                             | 15.98                                     | 16.04                           | 17.7                   | 0           |  |  |
| 10              | 64QAM      | 1          | 49           | 15.96                          | 15.95                             | 16.01                                     | 16.00                           |                        |             |  |  |
| 10              | 64QAM      | 25         | 0            | 15.79                          | 15.98                             | 15.94                                     | 16.02                           |                        |             |  |  |
| 10              | 64QAM      | 25         | 12           | 15.92                          | 15.84                             | 15.87                                     | 16.03                           |                        |             |  |  |
| 10              | 64QAM      | 25         | 25           | 15.98                          | 15.98                             | 15.90                                     | 16.03                           | 17.7                   | 0           |  |  |
| 10              | 64QAM      | 50         | 0            | 16.02                          | 16.03                             | 15.95                                     | 16.00                           |                        |             |  |  |
| 10              | 256QAM     | 1          | 0            | 15.90                          | 15.97                             | 15.95                                     | 15.95                           |                        |             |  |  |
| 10              | 256QAM     | 1          | 25           | 15.96                          | 15.94                             | 16.05                                     | 15.90                           | 17.7                   | 0           |  |  |
| 10              | 256QAM     | 1          | 49           | 15.85                          | 15.92                             | 15.90                                     | 15.93                           |                        |             |  |  |
| 10              | 256QAM     | 25         | 0            | 15.98                          | 16.01                             | 15.98                                     | 16.11                           |                        |             |  |  |
| 10              | 256QAM     | 25         | 12           | 15.93                          | 15.90                             | 16.01                                     | 16.03                           |                        |             |  |  |
| 10              | 256QAM     | 25         | 25           | 15.88                          | 15.95                             | 15.92                                     | 15.94                           | 17.7                   | 0           |  |  |
| 10              | 256QAM     | 50         | 0            | 15.82                          | 15.86                             | 15.98                                     | 16.03                           |                        |             |  |  |
| Channel         |            |            |              | 55265                          | 55810                             | 56170                                     | 56715                           | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 3552.5                         | 3607                              | 3643                                      | 3697.5                          |                        |             |  |  |
| 5               | QPSK       | 1          | 0            | 15.95                          | 15.79                             | 16.02                                     | 15.95                           | 17.7                   | 0           |  |  |
| 5               | QPSK       | 1          | 12           | 16.02                          | 16.04                             | 15.98                                     | 16.23                           |                        |             |  |  |
| 5               | QPSK       | 1          | 24           | 15.90                          | 15.91                             | 15.91                                     | 15.87                           |                        |             |  |  |
| 5               | QPSK       | 12         | 0            | 15.95                          | 15.91                             | 15.95                                     | 16.01                           |                        |             |  |  |
| 5               | QPSK       | 12         | 7            | 15.90                          | 15.92                             | 15.93                                     | 16.01                           | 17.7                   | 0           |  |  |
| 5               | QPSK       | 12         | 13           | 15.91                          | 16.02                             | 15.98                                     | 16.06                           |                        |             |  |  |
| 5               | QPSK       | 25         | 0            | 15.87                          | 15.97                             | 15.96                                     | 15.89                           |                        |             |  |  |
| 5               | 16QAM      | 1          | 0            | 15.95                          | 15.91                             | 15.96                                     | 16.13                           |                        |             |  |  |
| 5               | 16QAM      | 1          | 12           | 16.00                          | 16.04                             | 15.98                                     | 15.87                           | 17.7                   | 0           |  |  |
| 5               | 16QAM      | 1          | 24           | 15.81                          | 15.95                             | 16.00                                     | 16.00                           |                        |             |  |  |
| 5               | 16QAM      | 12         | 0            | 15.81                          | 16.00                             | 15.96                                     | 16.07                           |                        |             |  |  |
| 5               | 16QAM      | 12         | 7            | 15.85                          | 15.96                             | 15.93                                     | 15.93                           |                        |             |  |  |
| 5               | 16QAM      | 12         | 13           | 15.88                          | 16.09                             | 16.08                                     | 16.00                           | 17.7                   | 0           |  |  |
| 5               | 16QAM      | 25         | 0            | 15.89                          | 15.94                             | 15.89                                     | 16.01                           |                        |             |  |  |
| 5               | 64QAM      | 1          | 0            | 15.91                          | 16.00                             | 15.98                                     | 15.98                           |                        |             |  |  |
| 5               | 64QAM      | 1          | 12           | 15.87                          | 15.92                             | 16.00                                     | 15.92                           |                        |             |  |  |
| 5               | 64QAM      | 1          | 24           | 15.97                          | 15.87                             | 16.00                                     | 15.99                           | 17.7                   | 0           |  |  |
| 5               | 64QAM      | 12         | 0            | 15.79                          | 15.98                             | 16.00                                     | 16.06                           |                        |             |  |  |
| 5               | 64QAM      | 12         | 7            | 15.94                          | 15.87                             | 15.92                                     | 15.93                           |                        |             |  |  |
| 5               | 64QAM      | 12         | 13           | 15.90                          | 15.87                             | 15.90                                     | 15.97                           |                        |             |  |  |
| 5               | 64QAM      | 25         | 0            | 15.98                          | 16.08                             | 15.98                                     | 15.86                           | 17.7                   | 0           |  |  |
| 5               | 256QAM     | 1          | 0            | 15.88                          | 15.87                             | 16.03                                     | 16.07                           |                        |             |  |  |
| 5               | 256QAM     | 1          | 12           | 15.88                          | 16.03                             | 16.01                                     | 16.01                           |                        |             |  |  |
| 5               | 256QAM     | 1          | 24           | 15.86                          | 15.96                             | 15.97                                     | 15.93                           | 17.7                   | 0           |  |  |
| 5               | 256QAM     | 12         | 0            | 15.92                          | 15.94                             | 15.91                                     | 16.07                           |                        |             |  |  |
| 5               | 256QAM     | 12         | 7            | 15.79                          | 15.86                             | 16.04                                     | 16.09                           |                        |             |  |  |
| 5               | 256QAM     | 12         | 13           | 15.89                          | 15.95                             | 15.88                                     | 16.05                           |                        |             |  |  |
| 5               | 256QAM     | 25         | 0            | 15.81                          | 15.90                             | 15.93                                     | 15.93                           |                        |             |  |  |



| n2_Ant 0        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 372500                | 376000                   | 380500                 |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 16.79                 | 16.96                    | 16.75                  | 18.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 53        | 16.74                 | 16.86                    | 16.81                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 16.86                 | 16.89                    | 16.92                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 16.84                 | 16.93                    | 16.89                  | 18.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 28        | 16.95                 | 16.93                    | 16.83                  | 18.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 16.94                 | 16.84                    | 16.92                  | 18.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 16.87                 | 16.95                    | 16.94                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 16.94                 | 17.05                    | 16.91                  | 18.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 16.89                 | 16.96                    | 16.87                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 16.83                 | 16.91                    | 16.87                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 16.98                 | 16.96                    | 16.82                  | 18.0                | 0.0      |  |
| 20              | QPSK       | 50      | 28        | 16.99                 | 16.96                    | 16.92                  | 18.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 16.82                 | 16.88                    | 16.86                  | 18.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 16.90                 | 17.00                    | 16.91                  | 18.0                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 16.84                 | 16.96                    | 16.86                  |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 16.93                 | 16.96                    | 16.85                  | 18.0                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 16.87                 | 16.91                    | 16.81                  | 18.0                | 0.0      |  |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1867.5                | 1880                     | 1900.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 16.88                 | 16.83                    | 16.80                  | 18.0                | 0.0      |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1905                   | 18.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 16.78                 | 16.85                    | 16.87                  |                     |          |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1907.5                 | 18.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 16.84                 | 16.88                    | 16.79                  |                     |          |  |

| n2_Ant 1        |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |  |
| 20              | PI2 BPSK   | 1       | 1         | 17.73                    | 17.67                       | 17.58                     | 19.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 1       | 53        | 17.74                    | 17.79                       | 17.72                     |                        |             |  |
| 20              | PI2 BPSK   | 1       | 104       | 17.64                    | 17.67                       | 17.65                     |                        |             |  |
| 20              | PI2 BPSK   | 50      | 0         | 17.68                    | 17.80                       | 17.56                     | 19.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 28        | 17.67                    | 17.75                       | 17.65                     | 19.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 50      | 56        | 17.58                    | 17.73                       | 17.62                     | 19.0                   | 0.0         |  |
| 20              | PI2 BPSK   | 100     | 0         | 17.64                    | 17.70                       | 17.54                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 17.77                    | 17.66                       | 17.74                     | 19.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 53        | 17.66                    | 17.69                       | 17.64                     |                        |             |  |
| 20              | QPSK       | 1       | 104       | 17.71                    | 17.75                       | 17.58                     |                        |             |  |
| 20              | QPSK       | 50      | 0         | 17.62                    | 17.69                       | 17.64                     | 19.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 17.71                    | 17.77                       | 17.50                     | 19.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 17.67                    | 17.68                       | 17.56                     | 19.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 17.67                    | 17.73                       | 17.57                     | 19.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 17.70                    | 17.74                       | 17.62                     |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 17.66                    | 17.71                       | 17.56                     | 19.0                   | 0.0         |  |
| 20              | 256QAM     | 1       | 1         | 17.58                    | 17.67                       | 17.67                     | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz) |            |         |           | 1867.5                   | 1886                        | 1902.5                    |                        |             |  |
| 15              | QPSK       | 1       | 1         | 17.56                    | 17.64                       | 17.63                     | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1905                      |                        |             |  |
| 10              | QPSK       | 1       | 1         | 17.56                    | 17.72                       | 17.59                     | 19.0                   | 0.0         |  |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1907.5                    |                        |             |  |
| 5               | QPSK       | 1       | 1         | 17.62                    | 17.70                       | 17.59                     | 19.0                   | 0.0         |  |

| n25_Ant 0       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 373500               | 376500                  | 379500                |                     |          |  |
| Frequency (MHz) |            |         |           | 1870                 | 1882.5                  | 1895                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 17.05                | 17.14                   | 17.05                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 17.06                | 17.08                   | 16.97                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 16.93                | 17.07                   | 16.99                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 16.98                | 17.00                   | 17.04                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 17.00                | 17.04                   | 16.99                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 17.04                | 17.02                   | 16.94                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 16.98                | 17.10                   | 16.97                 |                     |          |  |
| 40              | QPSK       | 1       | 1         | 17.16                | 17.21                   | 16.98                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.06                | 16.97                   | 16.90                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 17.03                | 17.02                   | 16.95                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.02                | 17.02                   | 16.92                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 17.05                | 17.11                   | 16.97                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.02                | 17.09                   | 16.91                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 16.95                | 17.08                   | 16.98                 | 18.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 16.97                | 17.06                   | 16.92                 |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 17.00                | 17.02                   | 16.91                 | 18.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 16.93                | 17.06                   | 16.93                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 373500               | 376500                  | 379500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1867.5               | 1882.5                  | 1897.5                |                     |          |  |
| 35              | QPSK       | 1       | 1         | 16.94                | 16.97                   | 16.94                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 373500               | 376500                  | 380000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                 | 1882.5                  | 1900                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.04                | 17.05                   | 16.82                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 372500               | 376500                  | 380500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5               | 1882.5                  | 1902.5                |                     |          |  |
| 25              | QPSK       | 1       | 1         | 16.98                | 17.05                   | 16.83                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 372000               | 375500                  | 381000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1860                 | 1882.5                  | 1905                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 16.95                | 17.02                   | 16.86                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 371500               | 376500                  | 381500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5               | 1882.5                  | 1907.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 16.95                | 17.07                   | 16.90                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 371000               | 376500                  | 382000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                 | 1882.5                  | 1910                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 16.91                | 17.05                   | 16.88                 | 18.0                | 0.0      |  |
| Channel         |            |         |           | 370500               | 376500                  | 382500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5               | 1882.5                  | 1912.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 16.92                | 17.03                   | 16.91                 | 18.0                | 0.0      |  |

| n25_Ant 1       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 18.04                | 18.09                   | 18.02                 | 19.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 17.97                | 18.07                   | 18.05                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 17.84                | 17.96                   | 17.95                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 17.80                | 18.07                   | 18.03                 | 19.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 17.86                | 18.03                   | 18.03                 | 19.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 17.86                | 18.04                   | 18.08                 | 19.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 17.85                | 18.08                   | 18.05                 | 19.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 18.07                | 18.15                   | 18.12                 | 19.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.85                | 17.97                   | 17.98                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 17.97                | 18.05                   | 18.05                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.92                | 18.05                   | 17.98                 | 19.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 17.95                | 18.09                   | 18.05                 | 19.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.95                | 17.96                   | 18.01                 | 19.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.87                | 18.02                   | 17.95                 | 19.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.90                | 17.99                   | 18.06                 | 19.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.84                | 18.08                   | 17.97                 | 19.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.96                | 18.09                   | 18.07                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 35              | QPSK       | 1       | 1         | 17.95                | 18.01                   | 18.01                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 30              | QPSK       | 1       | 1         | 17.82                | 18.04                   | 17.90                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 25              | QPSK       | 1       | 1         | 17.84                | 17.99                   | 17.97                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 20              | QPSK       | 1       | 1         | 17.90                | 18.02                   | 17.92                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 15              | QPSK       | 1       | 1         | 17.90                | 18.00                   | 17.99                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 10              | QPSK       | 1       | 1         | 17.81                | 18.01                   | 17.87                 | 19.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 5               | QPSK       | 1       | 1         | 17.86                | 17.99                   | 17.97                 | 19.0                | 0.0      |  |

| n66_Ant 0       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 16.70                | 16.78                   | 16.75                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 16.82                | 16.87                   | 16.76                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 16.78                | 16.95                   | 16.93                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 16.83                | 16.96                   | 16.89                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 16.83                | 16.85                   | 16.84                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 16.75                | 16.93                   | 16.89                 | 18.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 16.85                | 16.98                   | 16.87                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 16.93                | 17.05                   | 16.93                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 16.87                | 16.96                   | 16.81                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 16.87                | 16.85                   | 16.90                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 16.81                | 16.85                   | 16.90                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 16.90                | 16.94                   | 16.91                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 16.84                | 16.89                   | 16.89                 | 18.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 16.76                | 16.92                   | 16.90                 | 18.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 16.80                | 16.87                   | 16.84                 | 18.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 16.86                | 16.85                   | 16.91                 | 18.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 16.82                | 16.97                   | 16.94                 | 18.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 35              | QPSK       | 1       | 1         | 16.87                | 16.84                   | 16.87                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.23                | 17.40                   | 17.23                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 30              | QPSK       | 1       | 1         | 16.84                | 16.79                   | 16.85                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.00                | 17.00                   | 17.00                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 25              | QPSK       | 1       | 1         | 17.22                | 17.45                   | 17.67                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.45                | 17.45                   | 17.45                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 25              | QPSK       | 1       | 1         | 16.89                | 16.88                   | 16.88                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.40                | 17.40                   | 17.40                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 20              | QPSK       | 1       | 1         | 16.81                | 16.91                   | 16.90                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.15                | 17.15                   | 17.15                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 15              | QPSK       | 1       | 1         | 17.15                | 17.45                   | 17.75                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.45                | 17.45                   | 17.45                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 10              | QPSK       | 1       | 1         | 16.81                | 16.82                   | 16.80                 | Tune-up limit (dBm) | MPR (dB) |  |
|                 |            |         |           | 17.15                | 17.15                   | 17.15                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 5               | QPSK       | 1       | 1         | 16.84                | 16.85                   | 16.77                 | Tune-up limit (dBm) | MPR (dB) |  |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 17.31                 | 17.33                    | 17.36                  | 18.5                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 17.17                 | 17.24                    | 17.25                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 17.22                 | 17.23                    | 17.21                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 17.26                 | 17.17                    | 17.22                  | 18.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 17.21                 | 17.25                    | 17.17                  | 18.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 17.20                 | 17.30                    | 17.29                  | 18.5                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 17.19                 | 17.20                    | 17.19                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 17.41                 | 17.43                    | 17.38                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 17.18                 | 17.41                    | 17.35                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 17.19                 | 17.28                    | 17.33                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 17.16                 | 17.18                    | 17.16                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 17.26                 | 17.34                    | 17.31                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 17.22                 | 17.20                    | 17.24                  | 18.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 17.17                 | 17.27                    | 17.23                  | 18.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 17.25                 | 17.26                    | 17.18                  | 18.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 17.13                 | 17.22                    | 17.20                  | 18.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 17.23                 | 17.31                    | 17.24                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 35              | QPSK       | 1       | 1         | 17.25                 | 17.45                    | 17.65                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 17.22                 | 17.19                    | 17.28                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 17.23                 | 17.23                    | 17.21                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 17.11                 | 17.22                    | 17.22                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 17.19                 | 17.22                    | 17.25                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 17.24                 | 17.29                    | 17.25                  | 18.5                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                 | 34600                    | 35000                  | Tune-up limit (dBm) | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 17.13                 | 17.21                    | 17.19                  | 18.5                | 0.0      |  |



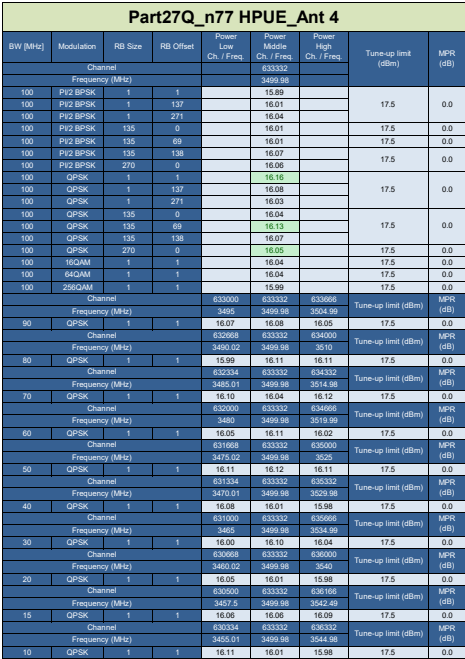
| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |                 |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-----------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB)        |  |
| Channel         |            |         |           | 505202                | 518598                   | 530200                 | 2546.01             | 2592.99 2640    |  |
| Frequency (MHz) |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |                 |  |
| 100             | Pl2 BPSK   | 1       | 1         | 22.07                 | 22.23                    | 21.97                  | 23.5                | 0.0             |  |
| 100             | Pl2 BPSK   | 1       | 137       | 21.97                 | 22.15                    | 22.07                  |                     |                 |  |
| 100             | Pl2 BPSK   | 1       | 271       | 22.04                 | 22.23                    | 22.09                  |                     |                 |  |
| 100             | Pl2 BPSK   | 135     | 6         | 22.02                 | 22.20                    | 21.99                  |                     |                 |  |
| 100             | Pl2 BPSK   | 135     | 69        | 21.95                 | 22.26                    | 21.97                  | 23.5                | 0.0             |  |
| 100             | Pl2 BPSK   | 135     | 138       | 21.95                 | 22.26                    | 22.01                  | 23.5                | 0.0             |  |
| 100             | Pl2 BPSK   | 270     | 0         | 22.06                 | 22.17                    | 21.99                  |                     |                 |  |
| 100             | QPSK       | 1       | 1         | 22.08                 | 22.27                    | 22.10                  |                     |                 |  |
| 100             | QPSK       | 1       | 137       | 22.06                 | 22.20                    | 22.04                  |                     |                 |  |
| 100             | QPSK       | 1       | 271       | 22.01                 | 22.21                    | 22.01                  | 23.5                | 0.0             |  |
| 100             | QPSK       | 135     | 0         | 21.96                 | 22.17                    | 22.04                  |                     |                 |  |
| 100             | QPSK       | 135     | 69        | 22.01                 | 22.22                    | 22.06                  |                     |                 |  |
| 100             | QPSK       | 135     | 138       | 22.01                 | 22.20                    | 21.99                  |                     |                 |  |
| 100             | QPSK       | 270     | 0         | 22.00                 | 22.17                    | 22.02                  | 23.5                | 0.0             |  |
| 100             | 16QAM      | 1       | 1         | 22.08                 | 22.25                    | 21.96                  | 23.5                | 0.0             |  |
| 100             | 64QAM      | 1       | 1         | 21.99                 | 22.18                    | 22.03                  | 23.5                | 0.0             |  |
| 100             | 256QAM     | 1       | 1         | 21.18                 | 21.28                    | 21.19                  | 22.5                | 1.0             |  |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | 2541                | 2592.99 2644.99 |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.99                |                     |                 |  |
| 80              | QPSK       | 1       | 1         | 22.02                 | 22.17                    | 22.08                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 507204                | 518598                   | 528996                 | 2536.02             | 2592.99 2649.99 |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |                 |  |
| 80              | QPSK       | 1       | 1         | 22.03                 | 22.23                    | 21.97                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 505202                | 518598                   | 531000                 | 2531.01             | 2592.99 2655    |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |                 |  |
| 70              | QPSK       | 1       | 1         | 21.98                 | 22.21                    | 22.01                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | 2521.02             | 2592.99 2664.99 |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |                 |  |
| 60              | QPSK       | 1       | 1         | 22.02                 | 22.19                    | 22.04                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | 2521.02             | 2592.99 2664.99 |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |                 |  |
| 50              | QPSK       | 1       | 1         | 21.09                 | 22.15                    | 22.09                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | 2516.01             | 2592.99 2670    |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |                 |  |
| 40              | QPSK       | 1       | 1         | 22.07                 | 22.15                    | 22.04                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 2511                  | 2592.99                  | 2674.98                | 2511                | 2592.99 2674.98 |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |                 |  |
| 30              | QPSK       | 1       | 1         | 22.06                 | 22.15                    | 21.99                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | 2508.02             | 2592.99 2678.99 |  |
| Frequency (MHz) |            |         |           | 2508.02               | 2592.99                  | 2678.99                |                     |                 |  |
| 20              | QPSK       | 1       | 1         | 22.03                 | 22.20                    | 21.96                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | 2503.5              | 2592.99 2682.48 |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |                 |  |
| 15              | QPSK       | 1       | 1         | 22.07                 | 22.17                    | 21.96                  | 23.5                | 0.0             |  |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | 2501.01             | 2592.99 2685    |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |                 |  |
| 10              | QPSK       | 1       | 1         | 21.97                 | 22.21                    | 22.09                  | 23.5                | 0.0             |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |                 |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-----------------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB)        |  |
| Channel             |            |         |           | 505202                | 518598                   | 530200                 | 2546.01             | 2592.99 2640    |  |
| Frequency (MHz)     |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |                 |  |
| 100                 | Pl2 BPSK   | 1       | 1         | 22.07                 | 22.23                    | 21.97                  | 23.5                | 0.0             |  |
| 100                 | Pl2 BPSK   | 1       | 137       | 21.97                 | 22.15                    | 22.07                  |                     |                 |  |
| 100                 | Pl2 BPSK   | 1       | 271       | 22.04                 | 22.23                    | 22.09                  |                     |                 |  |
| 100                 | Pl2 BPSK   | 135     | 0         | 22.02                 | 22.20                    | 21.99                  |                     |                 |  |
| 100                 | Pl2 BPSK   | 135     | 69        | 21.95                 | 22.26                    | 21.97                  | 23.5                | 0.0             |  |
| 100                 | Pl2 BPSK   | 135     | 138       | 21.95                 | 22.26                    | 22.01                  | 23.5                | 0.0             |  |
| 100                 | Pl2 BPSK   | 270     | 0         | 22.06                 | 22.17                    | 21.99                  |                     |                 |  |
| 100                 | QPSK       | 1       | 1         | 22.08                 | 22.27                    | 22.10                  |                     |                 |  |
| 100                 | QPSK       | 1       | 137       | 22.06                 | 22.20                    | 22.04                  |                     |                 |  |
| 100                 | QPSK       | 1       | 271       | 22.01                 | 22.21                    | 22.01                  | 23.5                | 0.0             |  |
| 100                 | QPSK       | 135     | 0         | 21.96                 | 22.17                    | 22.04                  |                     |                 |  |
| 100                 | QPSK       | 135     | 69        | 22.01                 | 22.22                    | 22.06                  |                     |                 |  |
| 100                 | QPSK       | 135     | 138       | 22.01                 | 22.20                    | 21.99                  |                     |                 |  |
| 100                 | QPSK       | 270     | 0         | 22.00                 | 22.17                    | 22.02                  | 23.5                | 0.0             |  |
| 100                 | 16QAM      | 1       | 1         | 22.08                 | 22.25                    | 21.96                  | 23.5                | 0.0             |  |
| 100                 | 64QAM      | 1       | 1         | 21.99                 | 22.18                    | 22.03                  | 23.5                | 0.0             |  |
| 100                 | 256QAM     | 1       | 1         | 21.18                 | 21.28                    | 21.19                  | 22.5                | 1.0             |  |
| Channel             |            |         |           | 508200                | 518598                   | 528996                 | 2541                | 2592.99 2644.99 |  |
| Frequency (MHz)     |            |         |           | 2541                  | 2592.99                  | 2644.99                |                     |                 |  |
| 80                  | QPSK       | 1       | 1         | 22.02                 | 22.17                    | 22.08                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 507204                | 518598                   | 528996                 | 2536.02             | 2592.99 2649.99 |  |
| Frequency (MHz)     |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |                 |  |
| 80                  | QPSK       | 1       | 1         | 22.03                 | 22.23                    | 21.97                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 505202                | 518598                   | 531996                 | 2531.01             | 2592.99 2655    |  |
| Frequency (MHz)     |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |                 |  |
| 70                  | QPSK       | 1       | 1         | 21.98                 | 22.21                    | 22.01                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 505200                | 518598                   | 531996                 | 2521.02             | 2592.99 2664.99 |  |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |                 |  |
| 60                  | QPSK       | 1       | 1         | 22.02                 | 22.19                    | 22.04                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 504204                | 518598                   | 532998                 | 2521.02             | 2592.99 2664.99 |  |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |                 |  |
| 50                  | QPSK       | 1       | 1         | 21.09                 | 22.15                    | 22.09                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 503202                | 518598                   | 534000                 | 2516.01             | 2592.99 2670    |  |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |                 |  |
| 40                  | QPSK       | 1       | 1         | 22.07                 | 22.15                    | 22.04                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 2511                  | 2592.99                  | 2674.98                | 2511                | 2592.99 2674.98 |  |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |                 |  |
| 30                  | QPSK       | 1       | 1         | 22.06                 | 22.15                    | 21.99                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 501204                | 518598                   | 535998                 | 2508.02             | 2592.99 2678.99 |  |
| Frequency (MHz)     |            |         |           | 2508.02               | 2592.99                  | 2678.99                |                     |                 |  |
| 20                  | QPSK       | 1       | 1         | 22.03                 | 22.20                    | 21.96                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 500700                | 518598                   | 536496                 | 2503.5              | 2592.99 2682.48 |  |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |                 |  |
| 15                  | QPSK       | 1       | 1         | 22.07                 | 22.17                    | 21.96                  | 23.5                | 0.0             |  |
| Channel             |            |         |           | 500202                | 518598                   | 537000                 | 2501.01             | 2592.99 2685    |  |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |                 |  |
| 10                  | QPSK       | 1       | 1         | 21.97                 | 22.21                    | 22.09                  | 23.5                | 0.0             |  |



| Part27Q_n77_Ant 4 |            |         |           |                             |                                |                              |                        |                     |      |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|---------------------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB)         |      |
| Channel           |            |         |           | 633000                      | 633998                         |                              | 17.5                   | 0.0                 |      |
| Frequency (MHz)   |            |         |           | 3499.98                     |                                |                              |                        |                     |      |
| 100               | PI2 BPSK   | 1       | 1         |                             | 15.89                          |                              | 17.5                   | 0.0                 |      |
| 100               | PI2 BPSK   | 1       | 137       |                             | 16.01                          |                              |                        |                     |      |
| 100               | PI2 BPSK   | 1       | 271       |                             | 16.04                          |                              | 17.5                   | 0.0                 |      |
| 100               | PI2 BPSK   | 135     | 0         |                             | 16.01                          |                              |                        |                     |      |
| 100               | PI2 BPSK   | 135     | 69        |                             | 16.01                          |                              | 17.5                   | 0.0                 |      |
| 100               | PI2 BPSK   | 135     | 138       |                             | 16.07                          |                              |                        |                     |      |
| 100               | PI2 BPSK   | 270     | 0         |                             | 16.06                          |                              | 17.5                   | 0.0                 |      |
| 100               | QPSK       | 1       | 1         |                             | 16.16                          |                              |                        |                     |      |
| 100               | QPSK       | 1       | 137       |                             | 16.08                          |                              | 17.5                   | 0.0                 |      |
| 100               | QPSK       | 1       | 271       |                             | 16.03                          |                              |                        |                     |      |
| 100               | QPSK       | 135     | 0         |                             | 16.04                          |                              | 17.5                   | 0.0                 |      |
| 100               | QPSK       | 135     | 69        |                             | 16.13                          |                              |                        |                     |      |
| 100               | QPSK       | 135     | 138       |                             | 16.07                          |                              | 17.5                   | 0.0                 |      |
| 100               | QPSK       | 270     | 0         |                             | 16.05                          |                              |                        |                     |      |
| 100               | 16QAM      | 1       | 1         |                             | 16.04                          |                              | 17.5                   | 0.0                 |      |
| 100               | 64QAM      | 1       | 1         |                             | 16.04                          |                              |                        |                     |      |
| 100               | 256QAM     | 1       | 1         |                             | 15.99                          |                              | 17.5                   | 0.0                 |      |
| Channel           |            |         |           | 633000                      | 633332                         | 633666                       |                        | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3495                        | 3499.98                        | 3504.99                      | Tune-up limit (dBm)    |                     | (dB) |
| 90                | QPSK       | 1       | 1         |                             | 16.07                          | 16.08                        | 16.05                  | 17.5                |      |
| Channel           |            |         |           | 632668                      | 633332                         | 634000                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3490.02                     | 3499.98                        | 3500                         |                        | Tune-up limit (dBm) |      |
| 80                | QPSK       | 1       | 1         |                             | 15.99                          | 16.11                        | 16.11                  | 17.5                |      |
| Channel           |            |         |           | 632334                      | 633332                         | 634332                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        | Tune-up limit (dBm) |      |
| 70                | QPSK       | 1       | 1         |                             | 16.10                          | 16.04                        | 16.12                  | 17.5                |      |
| Channel           |            |         |           | 632000                      | 633332                         | 634666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3480                        | 3499.98                        | 3519.99                      |                        | Tune-up limit (dBm) |      |
| 60                | QPSK       | 1       | 1         |                             | 16.05                          | 16.11                        | 16.02                  | 17.5                |      |
| Channel           |            |         |           | 631668                      | 633332                         | 635000                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3475.02                     | 3499.98                        | 3505                         |                        | Tune-up limit (dBm) |      |
| 50                | QPSK       | 1       | 1         |                             | 16.11                          | 16.12                        | 16.11                  | 17.5                |      |
| Channel           |            |         |           | 631334                      | 633332                         | 635332                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3470.01                     | 3499.98                        | 3509.98                      |                        | Tune-up limit (dBm) |      |
| 40                | QPSK       | 1       | 1         |                             | 16.08                          | 16.01                        | 15.98                  | 17.5                |      |
| Channel           |            |         |           | 631000                      | 633332                         | 635666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3465                        | 3499.98                        | 3504.99                      |                        | Tune-up limit (dBm) |      |
| 30                | QPSK       | 1       | 1         |                             | 16.00                          | 16.10                        | 16.04                  | 17.5                |      |
| Channel           |            |         |           | 630668                      | 633332                         | 636000                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3460.02                     | 3499.98                        | 3500                         |                        | Tune-up limit (dBm) |      |
| 20                | QPSK       | 1       | 1         |                             | 16.05                          | 16.01                        | 15.94                  | 17.5                |      |
| Channel           |            |         |           | 630330                      | 633332                         | 636336                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3457.5                      | 3499.98                        | 3502.49                      |                        | Tune-up limit (dBm) |      |
| 15                | QPSK       | 1       | 1         |                             | 16.06                          | 16.06                        | 16.09                  | 17.5                |      |
| Channel           |            |         |           | 630000                      | 633332                         | 636666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3453.01                     | 3499.98                        | 3504.98                      |                        | Tune-up limit (dBm) |      |
| 10                | QPSK       | 1       | 1         |                             | 16.11                          | 16.01                        | 15.98                  | 17.5                |      |

| Part27O_n77_Ant 4 |            |         |           |                             |                                |                              |                        |                     |      |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|---------------------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB)         |      |
| Channel           |            |         |           | 662000                      | 662000                         | 662000                       | 17.5                   | 0.0                 |      |
| Frequency (MHz)   |            |         |           | 3750                        | 3840                           | 3930                         |                        |                     |      |
| 100               | PI2 BPSK   | 1       | 1         |                             | 16.27                          | 16.45                        | 16.33                  | 17.5                | 0.0  |
| 100               | PI2 BPSK   | 1       | 137       |                             | 16.25                          | 16.44                        | 16.33                  |                     |      |
| 100               | PI2 BPSK   | 1       | 271       |                             | 16.24                          | 16.21                        | 16.16                  | 17.5                | 0.0  |
| 100               | PI2 BPSK   | 135     | 0         |                             | 16.24                          | 16.32                        | 16.09                  |                     |      |
| 100               | PI2 BPSK   | 135     | 69        |                             | 16.25                          | 16.33                        | 16.08                  | 17.5                | 0.0  |
| 100               | PI2 BPSK   | 135     | 138       |                             | 16.30                          | 16.27                        | 16.17                  |                     |      |
| 100               | PI2 BPSK   | 270     | 0         |                             | 16.30                          | 16.29                        | 16.09                  | 17.5                | 0.0  |
| 100               | QPSK       | 1       | 1         |                             | 16.45                          | 16.54                        | 16.33                  |                     |      |
| 100               | QPSK       | 1       | 137       |                             | 16.32                          | 16.35                        | 16.12                  | 17.5                | 0.0  |
| 100               | QPSK       | 1       | 271       |                             | 16.33                          | 16.35                        | 16.12                  |                     |      |
| 100               | QPSK       | 135     | 0         |                             | 16.22                          | 16.26                        | 16.19                  | 17.5                | 0.0  |
| 100               | QPSK       | 135     | 69        |                             | 16.34                          | 16.46                        | 16.23                  |                     |      |
| 100               | QPSK       | 135     | 138       |                             | 16.23                          | 16.33                        | 16.16                  | 17.5                | 0.0  |
| 100               | QPSK       | 270     | 0         |                             | 16.34                          | 16.38                        | 16.11                  |                     |      |
| 100               | 16QAM      | 1       | 1         |                             | 16.24                          | 16.28                        | 16.10                  | 17.5                | 0.0  |
| 100               | 64QAM      | 1       | 1         |                             | 16.32                          | 16.33                        | 16.17                  |                     |      |
| 100               | 256QAM     | 1       | 1         |                             | 16.27                          | 16.33                        | 16.21                  | 17.5                | 0.0  |
| Channel           |            |         |           | 649668                      | 650000                         | 662332                       | MPR                    |                     |      |
| Frequency (MHz)   |            |         |           | 3745.02                     | 3840                           | 3934.98                      | Tune-up limit (dBm)    |                     | (dB) |
| 90                | QPSK       | 1       | 1         |                             | 16.29                          | 16.32                        | 16.11                  | 17.5                |      |
| Channel           |            |         |           | 648334                      | 650000                         | 662666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3740.01                     | 3840                           | 3939.99                      |                        | Tune-up limit (dBm) |      |
| 80                | QPSK       | 1       | 1         |                             | 16.20                          | 16.32                        | 16.16                  | 17.5                |      |
| Channel           |            |         |           | 648000                      | 650000                         | 663000                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3735                        | 3840                           | 3945                         |                        | Tune-up limit (dBm) |      |
| 70                | QPSK       | 1       | 1         |                             | 16.24                          | 16.44                        | 16.11                  | 17.5                |      |
| Channel           |            |         |           | 646668                      | 650000                         | 663332                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3730.02                     | 3840                           | 3949.98                      |                        | Tune-up limit (dBm) |      |
| 60                | QPSK       | 1       | 1         |                             | 16.29                          | 16.44                        | 16.20                  | 17.5                |      |
| Channel           |            |         |           | 646334                      | 650000                         | 663666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3725.01                     | 3840                           | 3954.99                      |                        | Tune-up limit (dBm) |      |
| 50                | QPSK       | 1       | 1         |                             | 16.29                          | 16.32                        | 16.14                  | 17.5                |      |
| Channel           |            |         |           | 646000                      | 650000                         | 664000                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3720                        | 3840                           | 3960                         |                        | Tune-up limit (dBm) |      |
| 40                | QPSK       | 1       | 1         |                             | 16.27                          | 16.43                        | 16.13                  | 17.5                |      |
| Channel           |            |         |           | 645668                      | 650000                         | 664332                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3715.02                     | 3840                           | 3964.98                      |                        | Tune-up limit (dBm) |      |
| 30                | QPSK       | 1       | 1         |                             | 16.23                          | 16.39                        | 16.13                  | 17.5                |      |
| Channel           |            |         |           | 647334                      | 650000                         | 664666                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3840                           | 3969.99                      |                        | Tune-up limit (dBm) |      |
| 20                | QPSK       | 1       | 1         |                             | 16.20                          | 16.25                        | 16.17                  | 17.5                |      |
| Channel           |            |         |           | 647000                      | 650000                         | 664992                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3707.52                     | 3840                           | 3972.48                      |                        | Tune-up limit (dBm) |      |
| 15                | QPSK       | 1       | 1         |                             | 16.32                          | 16.44                        | 16.19                  | 17.5                |      |
| Channel           |            |         |           | 646668                      | 650000                         | 665332                       | 17.5                   | MPR                 |      |
| Frequency (MHz)   |            |         |           | 3705                        | 3840                           | 3975                         |                        | Tune-up limit (dBm) |      |
| 10                | QPSK       | 1       | 1         |                             | 16.23                          | 16.42                        | 16.15                  | 17.5                |      |



| Part270_n77 HPUE_Ant 4 |            |         |           |                         |                            |                          |                        |             |  |
|------------------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power<br>Low Ch./ Freq. | Power<br>Middle Ch./ Freq. | Power<br>High Ch./ Freq. | Turn-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 100                    | QPSK       | 1       | 1         | 16.27                   | 16.45                      | 16.33                    |                        |             |  |
| 100                    | P2 BPSK    | 1       | 137       | 16.25                   | 16.44                      | 16.33                    |                        | 0.0         |  |
| 100                    | P2 BPSK    | 1       | 271       | 16.24                   | 16.44                      | 16.16                    |                        |             |  |
| 100                    | P2 BPSK    | 135     | 0         | 16.24                   | 16.32                      | 16.09                    | 17.5                   | 0.0         |  |
| 100                    | P2 BPSK    | 135     | 69        | 16.25                   | 16.33                      | 16.08                    | 17.5                   | 0.0         |  |
| 100                    | P2 BPSK    | 135     | 138       | 16.30                   | 16.27                      | 16.17                    | 17.5                   | 0.0         |  |
| 100                    | P2 BPSK    | 270     | 0         | 16.30                   | 16.27                      | 16.09                    | 17.5                   | 0.0         |  |
| 100                    | QPSK       | 1       | 1         | 16.45                   | 16.54                      | 16.33                    |                        |             |  |
| 100                    | QPSK       | 1       | 137       | 16.32                   | 16.35                      | 16.12                    | 17.5                   | 0.0         |  |
| 100                    | QPSK       | 1       | 271       | 16.33                   | 16.35                      | 16.12                    |                        |             |  |
| 100                    | QPSK       | 135     | 0         | 16.32                   | 16.28                      | 16.19                    |                        |             |  |
| 100                    | QPSK       | 135     | 69        | 16.34                   | 16.46                      | 16.22                    | 17.5                   | 0.0         |  |
| 100                    | QPSK       | 135     | 138       | 16.23                   | 16.33                      | 16.16                    |                        |             |  |
| 100                    | QPSK       | 270     | 0         | 16.34                   | 16.38                      | 16.11                    | 17.5                   | 0.0         |  |
| 100                    | 16QAM      | 1       | 1         | 16.24                   | 16.28                      | 16.16                    | 17.5                   | 0.0         |  |
| 100                    | 64QAM      | 1       | 1         | 16.32                   | 16.33                      | 16.17                    | 17.5                   | 0.0         |  |
| 100                    | 256QAM     | 1       | 1         | 16.27                   | 16.33                      | 16.21                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 90                     | QPSK       | 1       | 1         | 16.48                   | 16.50                      | 16.32                    | Turn-up limit (dBm)    | MPR (dB)    |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 80                     | QPSK       | 1       | 1         | 16.20                   | 16.32                      | 16.16                    | Turn-up limit (dBm)    | MPR (dB)    |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 70                     | QPSK       | 1       | 1         | 16.20                   | 16.44                      | 16.11                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 60                     | QPSK       | 1       | 1         | 16.20                   | 16.32                      | 16.14                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 50                     | QPSK       | 1       | 1         | 16.20                   | 16.32                      | 16.14                    | Turn-up limit (dBm)    | MPR (dB)    |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 40                     | QPSK       | 1       | 1         | 16.27                   | 16.43                      | 16.13                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 30                     | QPSK       | 1       | 1         | 16.27                   | 16.43                      | 16.13                    | Turn-up limit (dBm)    | MPR (dB)    |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 20                     | QPSK       | 1       | 1         | 16.20                   | 16.35                      | 16.17                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 15                     | QPSK       | 1       | 1         | 16.32                   | 16.44                      | 16.19                    | 17.5                   | 0.0         |  |
| Channel                |            |         |           |                         |                            |                          |                        |             |  |
| Frequency (MHz)        |            |         |           |                         |                            |                          |                        |             |  |
| 10                     | QPSK       | 1       | 1         | 16.23                   | 16.42                      | 16.15                    | 17.5                   | 0.0         |  |

| Part27Q n77_Ant 7 |                 |         |           |                      |                         |                       |                     |          |  |
|-------------------|-----------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation      | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Turn-up limit (dBm) | MPR (dB) |  |
|                   | Channel         |         |           | 633332               | 636668                  |                       |                     |          |  |
|                   | Frequency (MHz) |         |           | 15.81                |                         |                       |                     |          |  |
| 100               | Pa2 BPSK        | 1       | 1         | 15.81                |                         |                       |                     |          |  |
|                   | Channel         |         |           | 137                  | 15.46                   |                       | 17.0                | 0.0      |  |
| 100               | Pa2 BPSK        | 1       | 1         | 15.46                |                         |                       |                     |          |  |
| 100               | Pa2 BPSK        | 135     | 9         | 15.40                |                         |                       | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 156                  | 15.47                   |                       | 17.0                | 0.0      |  |
| 100               | Pa2 BPSK        | 135     | 69        | 15.47                |                         |                       | 17.0                | 0.0      |  |
| 100               | Pa2 BPSK        | 135     | 138       | 15.43                |                         |                       | 17.0                | 0.0      |  |
| 100               | Pa2 BPSK        | 270     | 0         | 15.43                |                         |                       | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 1                    | 15.89                   |                       |                     |          |  |
| 100               | QPSK            | 1       | 1         | 15.41                |                         |                       |                     |          |  |
| 100               | QPSK            | 1       | 137       | 15.41                |                         |                       |                     |          |  |
| 100               | QPSK            | 1       | 271       | 15.47                |                         |                       |                     |          |  |
| 100               | QPSK            | 135     | 0         | 15.48                |                         |                       |                     |          |  |
| 100               | QPSK            | 135     | 69        | 15.48                |                         |                       | 17.0                | 0.0      |  |
| 100               | QPSK            | 135     | 138       | 15.38                |                         |                       |                     |          |  |
| 100               | QPSK            | 270     | 0         | 15.59                |                         |                       | 17.0                | 0.0      |  |
| 100               | 16QAM           | 1       | 1         | 15.49                |                         |                       | 17.0                | 0.0      |  |
| 100               | 64QAM           | 1       | 1         | 15.49                |                         |                       | 17.0                | 0.0      |  |
| 100               | 256QAM          | 1       | 1         | 15.46                |                         |                       | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 633300               | 633332                  | 633668                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3486                 | 3496.98                 | 3504.98               | Turn-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK            | 1       | 1         | 15.57                | 15.51                   | 15.60                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 633668               | 633332                  | 634000                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3496.98              | 3496.98                 | 3504.98               | Turn-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK            | 1       | 1         | 15.60                | 15.63                   | 15.52                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 632334               | 633332                  | 634332                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3486.01              | 3496.98                 | 3514.98               | Turn-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK            | 1       | 1         | 15.53                | 15.53                   | 15.53                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 632000               | 633332                  | 634668                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3480                 | 3496.98                 | 3519.99               | Turn-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK            | 1       | 1         | 15.63                | 15.59                   | 15.59                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 631668               | 633332                  | 635000                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3476.92              | 3496.98                 | 3505                  | Turn-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK            | 1       | 1         | 15.52                | 15.64                   | 15.63                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 631334               | 633332                  | 635332                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3470.01              | 3496.98                 | 3528.98               | Turn-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK            | 1       | 1         | 15.51                | 15.57                   | 15.52                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 631000               | 633332                  | 635668                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3465                 | 3496.98                 | 3530.99               | Turn-up limit (dBm) | MPR (dB) |  |
|                   | Channel         |         |           | 630668               | 633332                  | 636000                |                     |          |  |
|                   | Frequency (MHz) |         |           | 15.45                | 15.55                   | 15.62                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 3460.02              | 3496.98                 | 3540                  | Turn-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK            | 1       | 1         | 15.54                | 15.65                   | 15.63                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 630332               | 633332                  | 636332                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3455.93              | 3496.98                 | 3552.49               | Turn-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK            | 1       | 1         | 15.58                | 15.60                   | 15.59                 | 17.0                | 0.0      |  |
|                   | Channel         |         |           | 630000               | 633332                  | 636668                |                     |          |  |
|                   | Frequency (MHz) |         |           | 3450.01              | 3496.98                 | 3564.98               | Turn-up limit (dBm) | MPR (dB) |  |
| 10                | QPSK            | 1       | 1         | 15.55                | 15.51                   | 15.51                 | 17.0                | 0.0      |  |



| Part270_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power                 |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |                     |          |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 16.16                 | 16.02                    | 15.96                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 16.20                 | 16.09                    | 16.00                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 16.20                 | 16.07                    | 15.95                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 16.21                 | 16.03                    | 15.85                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 16.26                 | 16.02                    | 15.92                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 16.18                 | 16.07                    | 15.86                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 16.17                 | 15.97                    | 15.81                  | 17.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 16.31                 | 16.25                    | 16.08                  | 17.0                | 0.0      |  |
| 100               | QPSK       | 1       | 137       | 16.16                 | 16.13                    | 16.00                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 16.13                 | 16.16                    | 15.97                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 16.18                 | 16.17                    | 15.99                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 16.21                 | 16.11                    | 16.01                  | 17.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 16.12                 | 16.12                    | 15.98                  | 17.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 16.19                 | 16.17                    | 15.92                  | 17.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 16.28                 | 16.11                    | 15.95                  | 17.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 16.28                 | 16.04                    | 15.93                  | 17.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 16.27                 | 16.14                    | 15.91                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 16.17                 | 16.13                    | 15.97                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 16.13                 | 16.12                    | 15.86                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 16.13                 | 16.06                    | 15.89                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3732.02               | 3840                     | 3941.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 16.13                 | 16.06                    | 15.98                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 16.07                 | 16.07                    | 15.87                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 16.15                 | 16.03                    | 15.93                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 16.15                 | 16.07                    | 15.90                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 16.05                 | 16.05                    | 15.91                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 16.12                 | 16.04                    | 15.89                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 646500                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 16.14                 | 16.08                    | 15.85                  | 17.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power                 |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |                     |          |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 15.81                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 15.46                    |                        | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 15.48                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 15.40                    |                        | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 15.47                    |                        | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 15.40                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 15.43                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         |                       | 15.89                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 15.41                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 15.47                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 15.48                    |                        | 17.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                       | 15.66                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                       | 15.38                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 15.59                    |                        | 17.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 15.40                    |                        | 17.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 15.49                    |                        | 17.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 15.46                    |                        | 17.0                | 0.0      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3765                  | 3929.99                  | 3934.99                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 15.57                 | 15.51                    | 15.63                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 633400                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480.02               | 3469.98                  | 3510                   |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 15.50                 | 15.63                    | 15.52                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3469.98                  | 3514.98                |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 15.60                 | 15.53                    | 15.63                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3469.98                  | 3518.98                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 15.63                 | 15.59                    | 15.59                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 633000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3469.98                  | 3525                   |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 15.52                 | 15.54                    | 15.63                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3469.98                  | 3529.98                |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 15.51                 | 15.57                    | 15.62                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465.02               | 3469.98                  | 3534.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 15.68                 | 15.55                    | 15.62                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 633000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3469.98                  | 3540                   |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 15.54                 | 15.55                    | 15.53                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 630300                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3469.98                  | 3542.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 15.58                 | 15.60                    | 15.58                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 630000                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3469.98                  | 3544.98                |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 15.55                 | 15.51                    | 15.51                  | 17.0                | 0.0      |  |

| Part270_n77 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power                 |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |                     |          |  |
| Channel                |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3840                  | 3840                     | 3840                   |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 16.16                 | 16.02                    | 15.96                  |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 137       | 16.20                 | 16.09                    | 16.00                  | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 271       | 16.20                 | 16.07                    | 16.00                  |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 16.21                 | 16.03                    | 15.85                  | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 16.26                 | 16.02                    | 15.92                  | 17.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 16.18                 | 16.07                    | 15.86                  |                     |          |  |
| 100                    | PI2 BPSK   | 270     | 0         | 16.17                 | 15.97                    | 15.81                  | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 16.31                 | 16.25                    | 16.08                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 16.16                 | 16.13                    | 16.00                  | 17.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 16.13                 | 16.16                    | 15.97                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 16.18                 | 16.17                    | 15.99                  |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 16.21                 | 16.11                    | 16.01                  | 17.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 16.12                 | 16.12                    | 15.98                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 16.19                 | 16.17                    | 15.92                  | 17.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 16.28                 | 16.11                    | 15.95                  | 17.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 16.29                 | 16.04                    | 15.93                  | 17.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 16.27                 | 16.14                    | 15.91                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 1745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 16.17                 | 16.13                    | 15.97                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3840                  | 3934.98                  | 4028.96                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 16.13                 | 16.12                    | 15.96                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 649600                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 16.13                 | 16.06                    | 15.89                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 649500                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735.02               | 3840                     | 3949.98                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 16.13                 | 16.06                    | 15.88                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 649334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.1                | 3840                     | 3954.99                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 16.07                 | 16.07                    | 15.97                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 648800                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 16.15                 | 16.03                    | 15.93                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 647700                | 656000                   | 665133                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 16.15                 | 16.07                    | 15.90                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 647334                | 656000                   | 665666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.1                | 3840                     | 3969.99                |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 16.09                 | 16.05                    | 15.91                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 647168                | 656000                   | 666832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 16.12                 | 16.04                    | 15.97                  | 17.0                | 0.0      |  |
| Channel                |            |         |           | 647000                | 656000                   | 667000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 16.14                 | 16.08                    | 15.85                  | 17.0                | 0.0      |  |



| Part27Q_n77_Ant 10 |            |         |           |                     |                        |                      |                     |          |      |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 100                | PI2 BPSK   | 1       | 1         |                     | 11.38                  |                      | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 1       | 137       |                     | 11.31                  |                      |                     |          |      |
| 100                | PI2 BPSK   | 1       | 271       |                     | 11.31                  |                      |                     |          |      |
| 100                | PI2 BPSK   | 135     | 0         |                     | 11.31                  |                      | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 135     | 69        |                     | 11.28                  |                      | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 135     | 138       |                     | 11.38                  |                      | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 270     | 0         |                     | 11.33                  |                      |                     |          |      |
| 100                | QPSK       | 1       | 1         |                     | 11.52                  |                      |                     |          |      |
| 100                | QPSK       | 1       | 137       |                     | 11.38                  |                      | 12.5                | 0.0      |      |
| 100                | QPSK       | 1       | 271       |                     | 11.30                  |                      |                     |          |      |
| 100                | QPSK       | 135     | 0         |                     | 11.36                  |                      |                     |          |      |
| 100                | QPSK       | 135     | 69        |                     | 11.44                  |                      | 12.5                | 0.0      |      |
| 100                | QPSK       | 135     | 138       |                     | 11.38                  |                      |                     |          |      |
| 100                | QPSK       | 270     | 0         |                     | 11.33                  |                      |                     |          |      |
| 100                | 16QAM      | 1       | 1         |                     | 11.28                  |                      | 12.5                | 0.0      |      |
| 100                | 64QAM      | 1       | 1         |                     | 11.31                  |                      | 12.5                | 0.0      |      |
| 100                | 256QAM     | 1       | 1         |                     | 11.32                  |                      | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 90                 | QPSK       | 1       | 1         | 6330.00             | 6333.32                | 6336.66              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3495                | 3499.98                | 3504.99              |                     |          |      |
|                    |            |         |           | 11.31               | 11.30                  | 11.34                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 80                 | QPSK       | 1       | 1         | 6326.66             | 6333.32                | 6340.00              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3490.02             | 3499.98                | 3510                 |                     |          |      |
|                    |            |         |           | 11.36               | 11.33                  | 11.41                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 70                 | QPSK       | 1       | 1         | 6322.24             | 6333.32                | 6343.32              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3485.01             | 3499.98                | 3514.98              |                     |          |      |
|                    |            |         |           | 11.38               | 11.40                  | 11.35                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 60                 | QPSK       | 1       | 1         | 6320.00             | 6333.32                | 6346.66              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3480                | 3499.98                | 3519.99              |                     |          |      |
|                    |            |         |           | 11.37               | 11.34                  | 11.32                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 50                 | QPSK       | 1       | 1         | 6316.68             | 6333.32                | 6350.00              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3475.02             | 3499.98                | 3525                 |                     |          |      |
|                    |            |         |           | 11.39               | 11.36                  | 11.30                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 40                 | QPSK       | 1       | 1         | 6313.34             | 6333.32                | 6353.32              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3470.01             | 3499.98                | 3529.98              |                     |          |      |
|                    |            |         |           | 11.41               | 11.42                  | 11.34                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 30                 | QPSK       | 1       | 1         | 6309.68             | 6333.32                | 6360.00              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3460                | 3499.98                | 3540                 |                     |          |      |
|                    |            |         |           | 11.41               | 11.35                  | 11.20                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 20                 | QPSK       | 1       | 1         | 6305.00             | 6333.32                | 6366.66              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3450                | 3499.98                | 3546.98              |                     |          |      |
|                    |            |         |           | 11.34               | 11.33                  | 11.32                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 15                 | QPSK       | 1       | 1         | 6300.00             | 6333.32                | 6370.00              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3457.5              | 3499.98                | 3542.49              |                     |          |      |
|                    |            |         |           | 11.41               | 11.35                  | 11.40                | 12.5                | 0.0      |      |
| Channel            |            |         |           |                     |                        |                      |                     |          |      |
| Frequency (MHz)    |            |         |           |                     |                        |                      |                     |          |      |
| 10                 | QPSK       | 1       | 1         | 6303.34             | 6333.32                | 6368.00              | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3455.01             | 3499.98                | 3544.98              |                     |          |      |
|                    |            |         |           | 11.31               | 11.43                  | 11.35                | 12.5                | 0.0      |      |

| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |      |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 100                | PI2 BPSK   | 1       | 1         | 10.54                 | 10.65                    | 10.80                  | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 1       | 137       | 10.76                 | 10.79                    | 10.69                  |                     |          |      |
| 100                | PI2 BPSK   | 1       | 271       | 10.66                 | 10.77                    | 10.77                  |                     |          |      |
| 100                | PI2 BPSK   | 135     | 0         | 10.71                 | 10.78                    | 10.76                  | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 135     | 69        | 10.76                 | 10.84                    | 10.78                  | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 135     | 138       | 10.73                 | 10.83                    | 10.73                  | 12.5                | 0.0      |      |
| 100                | PI2 BPSK   | 270     | 0         | 10.78                 | 10.85                    | 10.78                  |                     |          |      |
| 100                | QPSK       | 1       | 1         | 10.75                 | 10.93                    | 10.75                  |                     |          |      |
| 100                | QPSK       | 1       | 137       | 10.72                 | 10.78                    | 10.68                  | 12.5                | 0.0      |      |
| 100                | QPSK       | 1       | 271       | 10.75                 | 10.87                    | 10.69                  |                     |          |      |
| 100                | QPSK       | 135     | 0         | 10.87                 | 10.78                    | 10.68                  |                     |          |      |
| 100                | QPSK       | 135     | 69        | 10.77                 | 10.85                    | 10.74                  | 12.5                | 0.0      |      |
| 100                | QPSK       | 135     | 138       | 10.73                 | 10.83                    | 10.87                  |                     |          |      |
| 100                | QPSK       | 270     | 0         | 10.77                 | 10.82                    | 10.80                  |                     |          |      |
| 100                | 16QAM      | 1       | 1         | 10.87                 | 10.86                    | 10.88                  | 12.5                | 0.0      |      |
| 100                | 64QAM      | 1       | 1         | 10.72                 | 10.85                    | 10.75                  | 12.5                | 0.0      |      |
| 100                | 256QAM     | 1       | 1         | 10.80                 | 10.82                    | 10.70                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 90                 | QPSK       | 1       | 1         | 646.668               | 656.000                  | 662.332                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3745.02               | 3640                     | 3674.98                |                     |          |      |
|                    |            |         |           | 10.67                 | 10.75                    | 10.72                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 80                 | QPSK       | 1       | 1         | 646.334               | 656.000                  | 660.666                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3740.01               | 3640                     | 3639.99                |                     |          |      |
|                    |            |         |           | 10.84                 | 10.73                    | 10.63                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 70                 | QPSK       | 1       | 1         | 646.000               | 656.000                  | 660.000                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3735                  | 3640                     | 3645                   |                     |          |      |
|                    |            |         |           | 10.74                 | 10.78                    | 10.73                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 60                 | QPSK       | 1       | 1         | 645.668               | 656.000                  | 663.332                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3732.02               | 3640                     | 3641.98                |                     |          |      |
|                    |            |         |           | 10.71                 | 10.82                    | 10.72                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 50                 | QPSK       | 1       | 1         | 645.334               | 656.000                  | 666.666                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3725.01               | 3640                     | 3654.98                |                     |          |      |
|                    |            |         |           | 10.68                 | 10.74                    | 10.83                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 40                 | QPSK       | 1       | 1         | 645.000               | 656.000                  | 666.000                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3720                  | 3640                     | 3660                   |                     |          |      |
|                    |            |         |           | 10.78                 | 10.75                    | 10.67                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 30                 | QPSK       | 1       | 1         | 644.668               | 656.000                  | 666.332                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3715.02               | 3640                     | 3654.98                |                     |          |      |
|                    |            |         |           | 10.67                 | 10.76                    | 10.67                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 20                 | QPSK       | 1       | 1         | 644.334               | 656.000                  | 666.666                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3710.01               | 3640                     | 3660.99                |                     |          |      |
|                    |            |         |           | 10.75                 | 10.82                    | 10.70                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 15                 | QPSK       | 1       | 1         | 644.000               | 656.000                  | 666.000                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3707.52               | 3640                     | 3672.48                |                     |          |      |
|                    |            |         |           | 10.76                 | 10.70                    | 10.71                  | 12.5                | 0.0      |      |
| Channel            |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |      |
| 10                 | QPSK       | 1       | 1         | 643.334               | 656.000                  | 666.332                | Tune-up limit (dBm) | MPR      | (dB) |
|                    |            |         |           | 3705                  | 3640                     | 3675                   |                     |          |      |
|                    |            |         |           | 10.70                 | 10.76                    | 10.85                  | 12.5                | 0.0      |      |

| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 11.35                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 11.31                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 11.31                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 11.28                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 11.33                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 11.33                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 11.52                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 11.30                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 11.38                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 11.44                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 11.38                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 11.33                    |                        | 12.5                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         |                       | 11.29                    |                        | 12.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 11.31                    |                        | 12.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 11.32                    |                        | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 633006                | 633352                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                      | QPSK       | 1       | 1         | 3486                  | 3498.98                  | 3504.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 11.31                 | 11.30                    | 11.34                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 630668                | 633352                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                      | QPSK       | 1       | 1         | 246702                | 3498.98                  | 3504.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 11.30                 | 11.33                    | 11.41                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 632034                | 633352                   | 634352                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                      | QPSK       | 1       | 1         | 3480.01               | 3498.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 11.29                 | 11.34                    | 11.35                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 632000                | 633352                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                      | QPSK       | 1       | 1         | 3480                  | 3498.98                  | 3519.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 11.37                 | 11.34                    | 11.32                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 631066                | 633352                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                      | QPSK       | 1       | 1         | 3475.02               | 3498.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 11.39                 | 11.36                    | 11.30                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 631384                | 633352                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                      | QPSK       | 1       | 1         | 3470.01               | 3498.98                  | 3528.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 11.41                 | 11.42                    | 11.34                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 631000                | 633352                   | 635966                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                      | QPSK       | 1       | 1         | 3465                  | 3498.98                  | 3534.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 11.41                 | 11.35                    | 11.30                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 630666                | 633352                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                      | QPSK       | 1       | 1         | 3460.02               | 3498.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 11.34                 | 11.33                    | 11.32                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 630500                | 633352                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                      | QPSK       | 1       | 1         | 3457.5                | 3498.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 11.41                 | 11.35                    | 11.40                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 630300                | 633352                   | 636500                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                      | QPSK       | 1       | 1         | 3455.01               | 3498.98                  | 3544.98                |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 11.31                 | 11.43                    | 11.35                  | 12.5                | 0.0      |  |



| Part270_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100                     | PI2 BPSK   | 1       | 1         | 10.54                 | 10.65                    | 10.80                  | 12.5                | 0.0      |  |  |
| 100                     | PI2 BPSK   | 1       | 137       | 10.76                 | 10.79                    | 10.89                  |                     |          |  |  |
| 100                     | PI2 BPSK   | 1       | 271       | 10.86                 | 10.77                    | 10.77                  |                     |          |  |  |
| 100                     | PI2 BPSK   | 135     | 0         | 10.71                 | 10.78                    | 10.76                  |                     |          |  |  |
| 100                     | PI2 BPSK   | 135     | 69        | 10.76                 | 10.84                    | 10.78                  | 12.5                | 0.0      |  |  |
| 100                     | PI2 BPSK   | 135     | 138       | 10.73                 | 10.83                    | 10.73                  | 12.5                | 0.0      |  |  |
| 100                     | PI2 BPSK   | 270     | 0         | 10.78                 | 10.85                    | 10.78                  |                     |          |  |  |
| 100                     | QPSK       | 1       | 1         | 10.75                 | 10.83                    | 10.75                  |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 10.72                 | 10.78                    | 10.68                  |                     |          |  |  |
| 100                     | QPSK       | 1       | 271       | 10.75                 | 10.87                    | 10.89                  | 12.5                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 0         | 10.67                 | 10.76                    | 10.88                  |                     |          |  |  |
| 100                     | QPSK       | 135     | 69        | 10.77                 | 10.85                    | 10.74                  |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       | 10.73                 | 10.83                    | 10.67                  |                     |          |  |  |
| 100                     | QPSK       | 270     | 0         | 10.77                 | 10.82                    | 10.80                  | 12.5                | 0.0      |  |  |
| 100                     | 16QAM      | 1       | 1         | 10.67                 | 10.86                    | 10.88                  | 12.5                | 0.0      |  |  |
| 100                     | 64QAM      | 1       | 1         | 10.72                 | 10.85                    | 10.75                  | 12.5                | 0.0      |  |  |
| 100                     | 256QAM     | 1       | 1         | 10.80                 | 10.82                    | 10.70                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |  |
| 90                      | QPSK       | 1       | 1         | 10.67                 | 10.75                    | 10.72                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 649334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |  |
| 80                      | QPSK       | 1       | 1         | 10.64                 | 10.73                    | 10.63                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 649000                | 650000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |  |
| 70                      | QPSK       | 1       | 1         | 10.74                 | 10.78                    | 10.73                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3735.02               | 3840                     | 3944.98                |                     |          |  |  |
| 60                      | QPSK       | 1       | 1         | 10.71                 | 10.82                    | 10.72                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |  |
| 50                      | QPSK       | 1       | 1         | 10.68                 | 10.74                    | 10.63                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |  |
| 40                      | QPSK       | 1       | 1         | 10.76                 | 10.75                    | 10.67                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3954.98                |                     |          |  |  |
| 30                      | QPSK       | 1       | 1         | 10.67                 | 10.76                    | 10.67                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3959.99                |                     |          |  |  |
| 20                      | QPSK       | 1       | 1         | 10.75                 | 10.82                    | 10.70                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |  |
| 15                      | QPSK       | 1       | 1         | 10.76                 | 10.70                    | 10.71                  | 12.5                | 0.0      |  |  |
| Channel                 |            |         |           | 645000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |  |
| 10                      | QPSK       | 1       | 1         | 10.70                 | 10.76                    | 10.65                  | 12.5                | 0.0      |  |  |

| Part270_q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel             |            |         |           | 633000                | 633332                   | 634698                 |                     |          |  |
| Frequency (MHz)     |            |         |           | 13.70                 | 13.84                    | 13.98                  |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 1         |                       | 13.80                    |                        | 15.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 1       | 137       |                       | 13.84                    |                        |                     |          |  |
| 100                 | PI2 BPSK   | 1       | 271       |                       | 13.84                    |                        |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 0         |                       | 13.83                    |                        |                     |          |  |
| 100                 | PI2 BPSK   | 135     | 69        |                       | 13.80                    |                        | 15.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 135     | 138       |                       | 13.76                    |                        | 15.0                | 0.0      |  |
| 100                 | PI2 BPSK   | 270     | 0         |                       | 13.83                    |                        |                     |          |  |
| 100                 | QPSK       | 1       | 1         |                       | 13.79                    |                        |                     |          |  |
| 100                 | QPSK       | 1       | 137       |                       | 13.90                    |                        |                     |          |  |
| 100                 | QPSK       | 1       | 271       |                       | 13.78                    |                        | 15.0                | 0.0      |  |
| 100                 | QPSK       | 135     | 0         |                       | 13.74                    |                        |                     |          |  |
| 100                 | QPSK       | 135     | 69        |                       | 13.86                    |                        |                     |          |  |
| 100                 | QPSK       | 135     | 138       |                       | 13.85                    |                        |                     |          |  |
| 100                 | QPSK       | 270     | 0         |                       | 13.85                    |                        | 15.0                | 0.0      |  |
| 100                 | 16QAM      | 1       | 1         |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| 100                 | 64QAM      | 1       | 1         |                       | 13.82                    |                        | 15.0                | 0.0      |  |
| 100                 | 256QAM     | 1       | 1         |                       | 13.82                    |                        | 15.0                | 0.0      |  |
| Channel             |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3405                  | 3409.99                  | 3414.99                |                     |          |  |
| 90                  | QPSK       | 1       | 1         | 13.77                 | 13.74                    | 13.74                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3400.02               | 3409.98                  | 3410                   |                     |          |  |
| 80                  | QPSK       | 1       | 1         | 13.73                 | 13.79                    | 13.74                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 632814                | 633332                   | 634102                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3405.01               | 3409.98                  | 3414.98                |                     |          |  |
| 70                  | QPSK       | 1       | 1         | 13.70                 | 13.71                    | 13.75                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 632000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3400                  | 3409.98                  | 3414.98                |                     |          |  |
| 60                  | QPSK       | 1       | 1         | 13.70                 | 13.82                    | 13.77                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 631668                | 633332                   | 633600                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3475.02               | 3409.98                  | 3425                   |                     |          |  |
| 50                  | QPSK       | 1       | 1         | 13.79                 | 13.81                    | 13.79                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 631334                | 633332                   | 633532                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3470.01               | 3409.98                  | 3429.98                |                     |          |  |
| 40                  | QPSK       | 1       | 1         | 13.80                 | 13.78                    | 13.84                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 631000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3465.02               | 3409.98                  | 3424.99                |                     |          |  |
| 30                  | QPSK       | 1       | 1         | 13.70                 | 13.83                    | 13.76                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 630668                | 633332                   | 633600                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3460.02               | 3409.98                  | 3424                   |                     |          |  |
| 20                  | QPSK       | 1       | 1         | 13.75                 | 13.75                    | 13.77                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 630500                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3457.5                | 3409.98                  | 3424.48                |                     |          |  |
| 15                  | QPSK       | 1       | 1         | 13.77                 | 13.79                    | 13.80                  | 15.0                | 0.0      |  |
| Channel             |            |         |           | 630334                | 633332                   | 633532                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)     |            |         |           | 3455.01               | 3409.98                  | 3424.98                |                     |          |  |
| 10                  | QPSK       | 1       | 1         | 13.74                 | 13.74                    | 13.80                  | 15.0                | 0.0      |  |

| Part270_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 640000                | 640000                   | 642000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |  |
| 100               | PI2 BPSK   | 1       | 1         | 13.48                 | 13.59                    | 13.54                  | 15.0                | 0.0      |  |  |
| 100               | PI2 BPSK   | 1       | 137       | 13.46                 | 13.70                    | 13.61                  |                     |          |  |  |
| 100               | PI2 BPSK   | 1       | 271       | 13.57                 | 13.66                    | 13.58                  |                     |          |  |  |
| 100               | PI2 BPSK   | 135     | 0         | 13.57                 | 13.66                    | 13.70                  | 15.0                | 0.0      |  |  |
| 100               | PI2 BPSK   | 135     | 68        | 13.53                 | 13.65                    | 13.64                  |                     |          |  |  |
| 100               | PI2 BPSK   | 135     | 138       | 13.45                 | 13.65                    | 13.59                  | 15.0                | 0.0      |  |  |
| 100               | PI2 BPSK   | 270     | 0         | 13.57                 | 13.70                    | 13.68                  |                     |          |  |  |
| 100               | QPSK       | 1       | 1         | 13.55                 | 13.84                    | 13.76                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 1       | 137       | 13.47                 | 13.76                    | 13.58                  |                     |          |  |  |
| 100               | QPSK       | 1       | 271       | 13.51                 | 13.71                    | 13.70                  |                     |          |  |  |
| 100               | QPSK       | 135     | 0         | 13.55                 | 13.84                    | 13.84                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 135     | 68        | 13.54                 | 13.79                    | 13.59                  |                     |          |  |  |
| 100               | QPSK       | 135     | 138       | 13.49                 | 13.77                    | 13.55                  | 15.0                | 0.0      |  |  |
| 100               | QPSK       | 270     | 0         | 13.50                 | 13.74                    | 13.65                  |                     |          |  |  |
| 100               | 16QAM      | 1       | 1         | 13.56                 | 13.66                    | 13.58                  | 15.0                | 0.0      |  |  |
| 100               | 64QAM      | 1       | 1         | 13.54                 | 13.69                    | 13.66                  |                     |          |  |  |
| 100               | 256QAM     | 1       | 1         | 13.59                 | 13.68                    | 13.57                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649696                | 650000                   | 652332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3764.02               | 3840                     | 3934.98                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                | QPSK       | 1       | 1         | 13.40                 | 13.68                    | 13.65                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649334                | 650000                   | 652666                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3762.01               | 3840                     | 3934.98                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                | QPSK       | 1       | 1         | 13.52                 | 13.70                    | 13.68                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649000                | 650000                   | 653000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                | QPSK       | 1       | 1         | 13.48                 | 13.67                    | 13.67                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649668                | 650000                   | 653332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3944.98                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                | QPSK       | 1       | 1         | 13.40                 | 13.64                    | 13.64                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649334                | 650000                   | 653000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                | QPSK       | 1       | 1         | 13.43                 | 13.84                    | 13.68                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 649000                | 650000                   | 654000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                | QPSK       | 1       | 1         | 13.40                 | 13.77                    | 13.55                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647688                | 650000                   | 654332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3954.98                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                | QPSK       | 1       | 1         | 13.49                 | 13.67                    | 13.61                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647234                | 650000                   | 656866                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3964.99                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                | QPSK       | 1       | 1         | 13.43                 | 13.78                    | 13.56                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647103                | 650000                   | 657332                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                | QPSK       | 1       | 1         | 13.48                 | 13.74                    | 13.55                  | 15.0                | 0.0      |  |  |
| Channel           |            |         |           | 647000                | 650000                   | 658000                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3974                   | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                | QPSK       | 1       | 1         | 13.42                 | 13.70                    | 13.64                  | 15.0                | 0.0      |  |  |





| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                |                          | 633332                 |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 13.60                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 13.84                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 13.84                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 13.80                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 13.78                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 13.83                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 13.79                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 13.90                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 13.78                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 13.74                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 13.85                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 13.85                    |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                       | 13.85                    |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         |                       | 13.82                    |                        | 15.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         |                       | 13.82                    |                        | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 13.77                 | 13.74                    | 13.74                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 13.73                 | 13.79                    | 13.74                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632234                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 13.70                 | 13.71                    | 13.75                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 13.70                 | 13.82                    | 13.77                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 13.79                 | 13.81                    | 13.79                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 13.80                 | 13.78                    | 13.84                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 13.70                 | 13.83                    | 13.76                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630668                | 633332                   | 636900                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3460.02               | 3499.98                  | 3560                   |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 13.75                 | 13.75                    | 13.77                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3457.5                | 3499.98                  | 3562.49                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 13.77                 | 13.79                    | 13.80                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3455.01               | 3499.98                  | 3564.98                |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 13.74                 | 13.74                    | 13.80                  | 15.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 13.48                 | 13.59                    | 13.54                  | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 13.46                 | 13.70                    | 13.61                  |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 13.57                 | 13.66                    | 13.68                  |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 13.57                 | 13.66                    | 13.70                  | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 13.53                 | 13.65                    | 13.64                  | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 13.45                 | 13.65                    | 13.59                  | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 13.57                 | 13.70                    | 13.69                  |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 13.65                 | 13.84                    | 13.75                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 13.47                 | 13.76                    | 13.58                  | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 13.51                 | 13.71                    | 13.70                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 13.53                 | 13.64                    | 13.59                  |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 13.54                 | 13.76                    | 13.65                  | 15.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 13.49                 | 13.77                    | 13.58                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 13.50                 | 13.74                    | 13.65                  |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 13.56                 | 13.66                    | 13.58                  | 15.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 13.54                 | 13.69                    | 13.66                  | 15.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 13.59                 | 13.68                    | 13.57                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 13.40                 | 13.68                    | 13.65                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 13.52                 | 13.70                    | 13.68                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 13.48                 | 13.67                    | 13.67                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 645668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3732.02               | 3840                     | 3943.98                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 13.40                 | 13.64                    | 13.64                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 645334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3725.01               | 3840                     | 3954.98                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 13.43                 | 13.64                    | 13.66                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 645000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 13.40                 | 13.77                    | 13.55                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 644668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 13.49                 | 13.67                    | 13.61                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 644334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 13.43                 | 13.78                    | 13.56                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 644000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 13.48                 | 13.74                    | 13.55                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 644000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 13.42                 | 13.70                    | 13.64                  | 15.0                | 0.0      |  |

| Part27Q_n78_Ant 4 |            |         |           |                          |                                |                           |                        |             |  |
|-------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           |                          |                                |                           |                        |             |  |
| Frequency (MHz)   |            |         |           | 3499.98                  |                                |                           |                        |             |  |
| 100               | PI2 BPSK   | 1       | 1         |                          | 14.54                          |                           | 16.0                   | 0.0         |  |
| 100               | PI2 BPSK   | 1       | 137       |                          | 14.51                          |                           |                        |             |  |
| 100               | PI2 BPSK   | 1       | 271       |                          | 14.33                          |                           |                        |             |  |
| 100               | PI2 BPSK   | 135     | 0         |                          | 14.28                          |                           | 16.0                   | 0.0         |  |
| 100               | PI2 BPSK   | 135     | 69        |                          | 14.35                          |                           | 16.0                   | 0.0         |  |
| 100               | PI2 BPSK   | 135     | 138       |                          | 14.39                          |                           | 16.0                   | 0.0         |  |
| 100               | PI2 BPSK   | 270     | 0         |                          | 14.34                          |                           | 16.0                   | 0.0         |  |
| 100               | QPSK       | 1       | 1         |                          | 14.01                          |                           | 16.0                   | 0.0         |  |
| 100               | QPSK       | 1       | 137       |                          | 14.28                          |                           |                        |             |  |
| 100               | QPSK       | 1       | 271       |                          | 14.37                          |                           |                        |             |  |
| 100               | QPSK       | 135     | 0         |                          | 14.46                          |                           | 16.0                   | 0.0         |  |
| 100               | QPSK       | 135     | 69        |                          | 14.33                          |                           | 16.0                   | 0.0         |  |
| 100               | QPSK       | 135     | 138       |                          | 14.33                          |                           | 16.0                   | 0.0         |  |
| 100               | QPSK       | 270     | 0         |                          | 14.40                          |                           | 16.0                   | 0.0         |  |
| 100               | 16QAM      | 1       | 1         |                          | 14.34                          |                           | 16.0                   | 0.0         |  |
| 100               | 64QAM      | 1       | 1         |                          | 14.38                          |                           | 16.0                   | 0.0         |  |
| 100               | 256QAM     | 1       | 1         |                          | 14.38                          |                           | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 633000                   | 633332                         | 633668                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3495                     | 3499.98                        | 3504.99                   | Tune-up limit (dBm)    | MPR         |  |
| 90                | QPSK       | 1       | 1         | 14.41                    | 14.33                          | 14.34                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 630698                   | 633332                         | 634000                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3490.02                  | 3499.98                        | 3500                      | Tune-up limit (dBm)    | MPR         |  |
| 80                | QPSK       | 1       | 1         | 14.37                    | 14.43                          | 14.40                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 632104                   | 633332                         | 634532                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3486.01                  | 3499.98                        | 3514.98                   | Tune-up limit (dBm)    | MPR         |  |
| 70                | QPSK       | 1       | 1         | 14.33                    | 14.41                          | 14.43                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 630000                   | 633332                         | 633668                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3480                     | 3499.98                        | 3511.99                   | Tune-up limit (dBm)    | MPR         |  |
| 60                | QPSK       | 1       | 1         | 14.40                    | 14.42                          | 14.39                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 631668                   | 633332                         | 635000                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3479.02                  | 3499.98                        | 3520                      | Tune-up limit (dBm)    | MPR         |  |
| 50                | QPSK       | 1       | 1         | 14.40                    | 14.37                          | 14.31                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 631334                   | 633332                         | 635332                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3470.01                  | 3499.98                        | 3529.98                   | Tune-up limit (dBm)    | MPR         |  |
| 40                | QPSK       | 1       | 1         | 14.33                    | 14.34                          | 14.37                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 631100                   | 633332                         | 633668                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3465                     | 3499.98                        | 3534.98                   | Tune-up limit (dBm)    | MPR         |  |
| 30                | QPSK       | 1       | 1         | 14.36                    | 14.34                          | 14.32                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 630698                   | 633332                         | 636000                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3490.02                  | 3499.98                        | 3540                      | Tune-up limit (dBm)    | MPR         |  |
| 20                | QPSK       | 1       | 1         | 14.40                    | 14.40                          | 14.37                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 630000                   | 633332                         | 638168                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3475.94                  | 3499.98                        | 3542.49                   | Tune-up limit (dBm)    | MPR         |  |
| 15                | QPSK       | 1       | 1         | 14.43                    | 14.41                          | 14.42                     | 16.0                   | 0.0         |  |
| Channel           |            |         |           | 630334                   | 633332                         | 636332                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 3465.01                  | 3499.98                        | 3544.98                   | Tune-up limit (dBm)    | MPR         |  |
| 10                | QPSK       | 1       | 1         | 14.38                    | 14.35                          | 14.33                     | 16.0                   | 0.0         |  |



| Part270_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 14.82                 | 65000                    |                        | 16.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 14.93                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 14.75                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 14.68                 |                          |                        | 16.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 14.65                 |                          |                        | 16.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 14.67                 |                          |                        | 16.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 14.72                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         | 14.96                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 14.84                 |                          |                        | 16.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 14.68                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 14.63                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 14.63                 |                          |                        | 16.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 14.71                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 14.71                 |                          |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 14.61                 |                          |                        | 16.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 14.62                 |                          |                        | 16.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 14.74                 |                          |                        | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 14.82                 | 14.72                    | 14.79                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 14.76                 | 14.70                    | 14.77                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 14.77                 | 14.76                    | 14.68                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 14.82                 | 14.81                    | 14.80                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 14.74                 | 14.49                    | 14.79                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 14.81                 | 14.72                    | 14.74                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 14.70                 | 14.72                    | 14.68                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 14.80                 | 14.79                    | 14.74                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 14.70                 | 14.69                    | 14.62                  | 16.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 14.76                 | 14.78                    | 14.68                  | 16.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                     |                        |                      |                     |          |  |
|------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 14.54               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 14.51               | 633302                 | 633668               |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 14.33               | 633302                 | 633668               |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 14.28               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 14.35               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 14.39               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 14.34               | 633302                 | 633668               |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 14.61               | 633302                 | 633668               |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 14.28               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 14.37               | 633302                 | 633668               |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 14.28               | 633302                 | 633668               |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 14.66               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 14.33               | 633302                 | 633668               |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 14.40               | 633302                 | 633668               |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 14.34               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 14.38               | 633302                 | 633668               | 16.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 14.26               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 14.41               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 14.37               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 14.33               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 14.40               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 14.40               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 14.33               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 14.36               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 14.40               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 14.43               | 633302                 | 633668               | 16.0                | 0.0      |  |
| Channel                |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)        |            |         |           |                     |                        |                      |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 14.38               | 633302                 | 633668               | 16.0                | 0.0      |  |

| Part270_n78 HPUE_Ant 4 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 14.82                |                         |                       | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 14.93                |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 14.76                |                         |                       |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 14.68                |                         |                       | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 14.65                |                         |                       | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 14.67                |                         |                       | 16.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 14.72                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 14.96                |                         |                       |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 14.84                |                         |                       | 16.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       | 14.68                |                         |                       |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 14.63                |                         |                       |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 14.63                |                         |                       | 16.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 14.71                |                         |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 14.71                |                         |                       |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 14.61                |                         |                       | 16.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 14.62                |                         |                       | 16.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 14.74                |                         |                       | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 14.82                | 14.72                   | 14.79                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 14.76                | 14.70                   | 14.77                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 14.77                | 14.76                   | 14.68                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 14.82                | 14.81                   | 14.80                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 14.74                | 14.49                   | 14.79                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 14.81                | 14.72                   | 14.74                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 14.79                | 14.72                   | 14.68                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 14.80                | 14.79                   | 14.74                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 14.70                | 14.69                   | 14.82                 | 16.0                | 0.0      |  |
| Channel                |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 14.78                | 14.78                   | 14.68                 | 16.0                | 0.0      |  |



| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 633332                |                          | 3499.98                |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         |                       | 15.71                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 15.89                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 15.90                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 15.95                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 15.81                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 15.87                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 15.89                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 1         |                       | 15.04                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 137       |                       | 15.85                    |                        | 17.0                | 0.0      |      |
| 100               | QPSK       | 1       | 271       |                       | 15.89                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 0         |                       | 15.93                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 69        |                       | 15.95                    |                        | 17.0                | 0.0      |      |
| 100               | QPSK       | 135     | 138       |                       | 15.94                    |                        |                     |          |      |
| 100               | QPSK       | 270     | 0         |                       | 15.96                    |                        |                     |          |      |
| 100               | 16QAM      | 1       | 1         |                       | 15.93                    |                        | 17.0                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         |                       | 15.91                    |                        | 17.0                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         |                       | 15.84                    |                        | 17.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                | 17.0                | 0.0      |      |
| 90                | QPSK       | 1       | 1         |                       | 15.81                    | 15.90                  | 15.82               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3490.02               | 3499.98                  | 3510                   | 17.0                | 0.0      |      |
| 80                | QPSK       | 1       | 1         |                       | 15.86                    | 15.89                  | 15.82               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 17.0                | 0.0      |      |
| 70                | QPSK       | 1       | 1         |                       | 15.82                    | 15.83                  | 15.89               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3480                  | 3499.98                  | 3519.99                | 17.0                | 0.0      |      |
| 60                | QPSK       | 1       | 1         |                       | 15.82                    | 15.82                  | 15.92               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3475.02               | 3499.98                  | 3525                   | 17.0                | 0.0      |      |
| 50                | QPSK       | 1       | 1         |                       | 15.85                    | 15.93                  | 15.87               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 17.0                | 0.0      |      |
| 40                | QPSK       | 1       | 1         |                       | 15.93                    | 15.90                  | 15.82               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3460.02               | 3499.98                  | 3540                   | 17.0                | 0.0      |      |
| 30                | QPSK       | 1       | 1         |                       | 15.93                    | 15.92                  | 15.90               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3450.02               | 3499.98                  | 3549.99                | 17.0                | 0.0      |      |
| 20                | QPSK       | 1       | 1         |                       | 15.88                    | 15.92                  | 15.85               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 17.0                | 0.0      |      |
| 15                | QPSK       | 1       | 1         |                       | 15.92                    | 15.83                  | 15.84               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 17.0                | 0.0      |      |
| 10                | QPSK       | 1       | 1         |                       | 15.94                    | 15.83                  | 15.93               | 17.0     | 0.0  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 650000                |                          | 3750                   |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         |                       | 16.16                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 16.13                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 16.09                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 16.11                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 16.14                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 16.15                    |                        | 17.0                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 16.07                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 1         |                       | 16.21                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 137       |                       | 16.09                    |                        | 17.0                | 0.0      |      |
| 100               | QPSK       | 1       | 271       |                       | 16.12                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 0         |                       | 16.15                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 69        |                       | 16.17                    |                        | 17.0                | 0.0      |      |
| 100               | QPSK       | 135     | 138       |                       | 16.07                    |                        |                     |          |      |
| 100               | QPSK       | 270     | 0         |                       | 16.11                    |                        |                     |          |      |
| 100               | 16QAM      | 1       | 1         |                       | 16.10                    |                        | 17.0                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         |                       | 16.11                    |                        | 17.0                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         |                       | 16.09                    |                        | 17.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3745.02               | 3750                     | 3754.98                | 17.0                | 0.0      |      |
| 90                | QPSK       | 1       | 1         |                       | 16.02                    | 16.02                  | 16.12               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3740.01               | 3750                     | 3759.99                | 17.0                | 0.0      |      |
| 80                | QPSK       | 1       | 1         |                       | 16.07                    | 16.16                  | 16.11               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3735                  | 3750                     | 3765                   | 17.0                | 0.0      |      |
| 70                | QPSK       | 1       | 1         |                       | 16.15                    | 16.14                  | 16.10               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3740.02               | 3750                     | 3760.98                | 17.0                | 0.0      |      |
| 60                | QPSK       | 1       | 1         |                       | 16.13                    | 16.11                  | 16.15               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3735.01               | 3750                     | 3774.98                | 17.0                | 0.0      |      |
| 50                | QPSK       | 1       | 1         |                       | 16.10                    | 16.14                  | 16.15               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3730                  | 3750                     | 3760                   | 17.0                | 0.0      |      |
| 40                | QPSK       | 1       | 1         |                       | 16.16                    | 16.08                  | 16.09               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3715.02               | 3750                     | 3764.98                | 17.0                | 0.0      |      |
| 30                | QPSK       | 1       | 1         |                       | 16.08                    | 16.09                  | 16.04               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3710.01               | 3750                     | 3769.99                | 17.0                | 0.0      |      |
| 20                | QPSK       | 1       | 1         |                       | 16.07                    | 16.11                  | 16.12               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3707.52               | 3750                     | 3762.48                | 17.0                | 0.0      |      |
| 15                | QPSK       | 1       | 1         |                       | 16.08                    | 16.07                  | 16.16               | 17.0     | 0.0  |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647000                | 650000                   | 653100                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3705                  | 3750                     | 3765                   | 17.0                | 0.0      |      |
| 10                | QPSK       | 1       | 1         |                       | 16.06                    | 16.06                  | 16.02               | 17.0     | 0.0  |

| Part27Q_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |                     |          |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel                |            |         |           |                       |                          |                        |                     |                     |          |
| Frequency (MHz)        |            |         |           | 633332                |                          | 3499.98                |                     |                     |          |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 15.71                    |                        | 17.0                | 0.0                 |          |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 15.89                    |                        |                     |                     |          |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 15.90                    |                        |                     |                     |          |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 15.95                    |                        | 17.0                | 0.0                 |          |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 15.81                    |                        | 17.0                | 0.0                 |          |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 15.87                    |                        | 17.0                | 0.0                 |          |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 15.89                    |                        |                     |                     |          |
| 100                    | QPSK       | 1       | 1         |                       | 15.04                    |                        |                     |                     |          |
| 100                    | QPSK       | 1       | 137       |                       | 15.85                    |                        | 17.0                | 0.0                 |          |
| 100                    | QPSK       | 1       | 271       |                       | 15.89                    |                        |                     |                     |          |
| 100                    | QPSK       | 135     | 0         |                       | 15.93                    |                        |                     |                     |          |
| 100                    | QPSK       | 135     | 69        |                       | 15.85                    |                        | 17.0                | 0.0                 |          |
| 100                    | QPSK       | 135     | 138       |                       | 15.94                    |                        | 17.0                | 0.0                 |          |
| 100                    | QPSK       | 270     | 0         |                       | 15.86                    |                        |                     |                     |          |
| 100                    | 16QAM      | 1       | 1         |                       | 15.04                    |                        |                     |                     |          |
| 100                    | 64QAM      | 1       | 1         |                       | 15.91                    |                        | 17.0                | 0.0                 |          |
| 100                    | 256QAM     | 1       | 1         |                       | 15.84                    |                        | 17.0                | 0.0                 |          |
| Channel                |            |         |           | 633000                |                          | 633332                 | 633666              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3495                  |                          | 3499.98                |                     |                     |          |
| 90                     | QPSK       | 1       | 1         | 15.81                 | 15.90                    | 15.82                  | 17.0                |                     |          |
| Channel                |            |         |           | 630668                |                          | 633332                 | 636000              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 2910.02               |                          | 3499.98                |                     |                     |          |
| 80                     | QPSK       | 1       | 1         | 15.80                 | 15.89                    | 15.82                  | 17.0                |                     |          |
| Channel                |            |         |           | 632334                |                          | 633332                 | 634332              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3448.01               |                          | 3499.98                |                     |                     |          |
| 70                     | QPSK       | 1       | 1         | 15.82                 | 15.93                    | 15.80                  | 17.0                |                     |          |
| Channel                |            |         |           | 632000                |                          | 633332                 | 634666              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3480                  |                          | 3499.98                |                     |                     |          |
| 60                     | QPSK       | 1       | 1         | 15.82                 | 15.82                    | 15.92                  | 17.0                |                     |          |
| Channel                |            |         |           | 631666                |                          | 633332                 | 635000              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3475.02               |                          | 3499.98                |                     |                     |          |
| 50                     | QPSK       | 1       | 1         | 15.85                 | 15.93                    | 15.87                  | 17.0                |                     |          |
| Channel                |            |         |           | 631334                |                          | 633332                 | 635332              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3470.01               |                          | 3499.98                |                     |                     |          |
| 40                     | QPSK       | 1       | 1         | 15.93                 | 15.90                    | 15.82                  | 17.0                |                     |          |
| Channel                |            |         |           | 631000                |                          | 633332                 | 635666              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3465                  |                          | 3499.98                |                     |                     |          |
| 30                     | QPSK       | 1       | 1         | 15.83                 | 15.92                    | 15.90                  | 17.0                |                     |          |
| Channel                |            |         |           | 630666                |                          | 633332                 | 636000              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3460.02               |                          | 3499.98                |                     |                     |          |
| 20                     | QPSK       | 1       | 1         | 15.88                 | 15.92                    | 15.85                  | 17.0                |                     |          |
| Channel                |            |         |           | 630332                |                          | 633332                 | 636332              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3457.5                |                          | 3499.98                |                     |                     |          |
| 15                     | QPSK       | 1       | 1         | 15.92                 | 15.83                    | 15.84                  | 17.0                |                     |          |
| Channel                |            |         |           | 630000                |                          | 633332                 | 636666              | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 3455.01               |                          | 3499.98                |                     |                     |          |
| 10                     | QPSK       | 1       | 1         | 15.94                 | 15.83                    | 15.93                  | 17.0                |                     |          |



| Part270_n78 HPUE_Ant 7 |            |         |           |                       |                          |                        |                     |          |     |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                |            |         |           |                       |                          |                        |                     |          |     |
| Frequency (MHz)        |            |         |           | 3750                  | 650000                   | 3750                   |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 16.16                    |                        | 17.0                |          | 0.0 |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 16.13                    |                        |                     |          |     |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 16.09                    |                        |                     |          |     |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 16.11                    |                        | 17.0                |          | 0.0 |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 16.14                    |                        | 17.0                |          | 0.0 |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 16.15                    |                        | 17.0                |          | 0.0 |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 16.07                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 1         |                       | 16.21                    |                        |                     |          |     |
| 100                    | QPSK       | 1       | 137       |                       | 16.09                    |                        | 17.0                |          | 0.0 |
| 100                    | QPSK       | 1       | 271       |                       | 16.12                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 0         |                       | 16.15                    |                        |                     |          |     |
| 100                    | QPSK       | 135     | 69        |                       | 16.15                    |                        | 17.0                |          | 0.0 |
| 100                    | QPSK       | 135     | 138       |                       | 16.07                    |                        |                     |          |     |
| 100                    | QPSK       | 270     | 0         |                       | 16.11                    |                        |                     |          |     |
| 100                    | 16QAM      | 1       | 1         |                       | 16.10                    |                        | 17.0                |          | 0.0 |
| 100                    | 64QAM      | 1       | 1         |                       | 16.11                    |                        | 17.0                |          | 0.0 |
| 100                    | 256QAM     | 1       | 1         |                       | 16.09                    |                        | 17.0                |          | 0.0 |
| Channel                |            |         |           | 648668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |     |
| 90                     | QPSK       | 1       | 1         |                       | 16.02                    | 16.02                  | 16.12               | 17.0     | 0.0 |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |     |
| 80                     | QPSK       | 1       | 1         |                       | 16.07                    | 16.16                  | 16.11               | 17.0     | 0.0 |
| Channel                |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3735.02               | 3750                     | 3765.98                |                     |          |     |
| 70                     | QPSK       | 1       | 1         |                       | 16.15                    | 16.14                  | 16.10               | 17.0     | 0.0 |
| Channel                |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |     |
| 60                     | QPSK       | 1       | 1         |                       | 16.13                    | 16.11                  | 16.15               | 17.0     | 0.0 |
| Channel                |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |     |
| 50                     | QPSK       | 1       | 1         |                       | 16.10                    | 16.14                  | 16.15               | 17.0     | 0.0 |
| Channel                |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |     |
| 40                     | QPSK       | 1       | 1         |                       | 16.16                    | 16.08                  | 16.09               | 17.0     | 0.0 |
| Channel                |            |         |           | 647168                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |     |
| 30                     | QPSK       | 1       | 1         |                       | 16.08                    | 16.09                  | 16.04               | 17.0     | 0.0 |
| Channel                |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |     |
| 20                     | QPSK       | 1       | 1         |                       | 16.07                    | 16.11                  | 16.12               | 17.0     | 0.0 |
| Channel                |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |     |
| 15                     | QPSK       | 1       | 1         |                       | 16.06                    | 16.07                  | 16.16               | 17.0     | 0.0 |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |     |
| 10                     | QPSK       | 1       | 1         |                       | 16.06                    | 16.06                  | 16.02               | 17.0     | 0.0 |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           |                       | 633332                   |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         |                       | 11.34                    |                        | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       |                       | 11.40                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       |                       | 11.47                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         |                       | 11.45                    |                        | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        |                       | 11.36                    |                        | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       |                       | 11.40                    |                        | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         |                       | 11.46                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 1         |                       | 11.55                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 11.39                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                       | 11.43                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 11.34                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 69        |                       | 11.43                    |                        | 12.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       |                       | 11.36                    |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         |                       | 11.38                    |                        |                     |          |  |
| 100                | 16QAM      | 1       | 1         |                       | 11.38                    |                        | 12.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                       | 11.47                    |                        | 12.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                       | 11.41                    |                        | 12.5                | 0.0      |  |
| Channel            |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3695                  | 3699.98                  | 3704.99                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 11.38                 | 11.38                    | 11.42                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3690.02               | 3699.98                  | 3700                   |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 11.42                 | 11.34                    | 11.40                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3685.01               | 3699.98                  | 3714.98                |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 11.29                 | 11.34                    | 11.37                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3680                  | 3699.98                  | 3716.98                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 11.38                 | 11.31                    | 11.35                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3675.02               | 3699.98                  | 3725                   |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 11.35                 | 11.41                    | 11.37                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3670.01               | 3699.98                  | 3729.98                |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 11.31                 | 11.29                    | 11.37                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3665                  | 3699.98                  | 3734.99                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 11.40                 | 11.34                    | 11.38                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3660.02               | 3699.98                  | 3740                   |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 11.31                 | 11.39                    | 11.31                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3657.5                | 3699.98                  | 3742.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 11.37                 | 11.42                    | 11.40                  | 12.5                | 0.0      |  |
| Channel            |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3655.01               | 3699.98                  | 3744.98                |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 11.35                 | 11.28                    | 11.30                  | 12.5                | 0.0      |  |

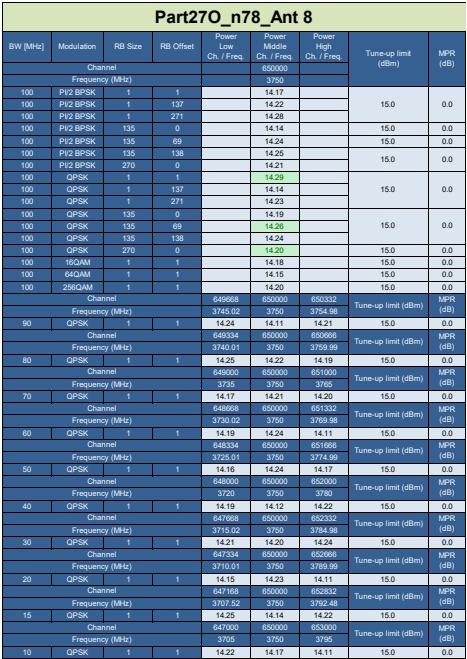
| Part270_n78_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|--------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 650000               | 650000                  |                       |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         |                      | 11.45                   |                       | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       |                      | 11.57                   |                       |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       |                      | 11.53                   |                       |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         |                      | 11.46                   |                       | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        |                      | 11.56                   |                       | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       |                      | 11.43                   |                       | 12.5                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         |                      | 11.50                   |                       |                     |          |  |
| 100                | QPSK       | 1       | 1         |                      | 11.61                   |                       |                     |          |  |
| 100                | QPSK       | 1       | 137       |                      | 11.52                   |                       | 12.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                      | 11.45                   |                       |                     |          |  |
| 100                | QPSK       | 135     | 0         |                      | 11.46                   |                       |                     |          |  |
| 100                | QPSK       | 135     | 69        |                      | 11.55                   |                       | 12.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       |                      | 11.54                   |                       |                     |          |  |
| 100                | QPSK       | 270     | 0         |                      | 11.50                   |                       |                     |          |  |
| 100                | 16QAM      | 1       | 1         |                      | 11.46                   |                       | 12.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                      | 11.47                   |                       | 12.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                      | 11.52                   |                       | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 11.48                | 11.47                   | 11.50                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 11.43                | 11.48                   | 11.44                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648600               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 11.41                | 11.52                   | 11.40                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648668               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 11.43                | 11.53                   | 11.44                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 11.51                | 11.51                   | 11.40                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 648600               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 11.40                | 11.50                   | 11.50                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 11.52                | 11.52                   | 11.44                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 11.47                | 11.46                   | 11.48                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3705.02              | 3750                    | 3795.98               |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 11.45                | 11.44                   | 11.54                 | 12.5                | 0.0      |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           | 647000               | 650000                  | 653500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3700                 | 3750                    | 3795                  |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 11.40                | 11.40                   | 11.47                 | 12.5                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 10 |            |         |           |                      |                         |                       |                     |          |     |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 3499.98              |                         |                       |                     |          |     |
| 100                     | PI2 BPSK   | 1       | 1         |                      | 11.34                   |                       |                     |          |     |
| 100                     | PI2 BPSK   | 1       | 137       |                      | 11.40                   |                       | 12.5                |          | 0.0 |
| 100                     | PI2 BPSK   | 1       | 271       |                      | 11.47                   |                       |                     |          |     |
| 100                     | PI2 BPSK   | 135     | 0         |                      | 11.45                   |                       | 12.5                |          | 0.0 |
| 100                     | PI2 BPSK   | 135     | 69        |                      | 11.36                   |                       | 12.5                |          | 0.0 |
| 100                     | PI2 BPSK   | 135     | 138       |                      | 11.40                   |                       |                     |          |     |
| 100                     | PI2 BPSK   | 270     | 0         |                      | 11.46                   |                       | 12.5                |          | 0.0 |
| 100                     | QPSK       | 1       | 1         |                      | 11.55                   |                       |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                      | 11.39                   |                       | 12.5                |          | 0.0 |
| 100                     | QPSK       | 1       | 271       |                      | 11.43                   |                       |                     |          |     |
| 100                     | QPSK       | 135     | 0         |                      | 11.34                   |                       |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                      | 11.43                   |                       | 12.5                |          | 0.0 |
| 100                     | QPSK       | 135     | 138       |                      | 11.36                   |                       |                     |          |     |
| 100                     | QPSK       | 270     | 0         |                      | 11.38                   |                       | 12.5                |          | 0.0 |
| 100                     | 16QAM      | 1       | 1         |                      | 11.38                   |                       | 12.5                |          | 0.0 |
| 100                     | 64QAM      | 1       | 1         |                      | 11.47                   |                       | 12.5                |          | 0.0 |
| 100                     | 256QAM     | 1       | 1         |                      | 11.41                   |                       | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |     |
| 90                      | QPSK       | 1       | 1         | 11.38                | 11.38                   | 11.42                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 635066               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3490.02              | 3499.98                 | 3510                  |                     |          |     |
| 80                      | QPSK       | 1       | 1         | 11.42                | 11.34                   | 11.40                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |     |
| 70                      | QPSK       | 1       | 1         | 11.29                | 11.34                   | 11.37                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3490                 | 3499.98                 | 3519.99               |                     |          |     |
| 60                      | QPSK       | 1       | 1         | 11.38                | 11.31                   | 11.35                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 631666               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3475.02              | 3499.98                 | 3525                  |                     |          |     |
| 50                      | QPSK       | 1       | 1         | 11.38                | 11.41                   | 11.37                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |     |
| 40                      | QPSK       | 1       | 1         | 11.31                | 11.29                   | 11.37                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 631000               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3465                 | 3499.98                 | 3534.99               |                     |          |     |
| 30                      | QPSK       | 1       | 1         | 11.40                | 11.34                   | 11.38                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 630666               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3490.02              | 3499.98                 | 3540                  |                     |          |     |
| 20                      | QPSK       | 1       | 1         | 11.31                | 11.39                   | 11.31                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 630500               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3457.5               | 3499.98                 | 3542.49               |                     |          |     |
| 15                      | QPSK       | 1       | 1         | 11.37                | 11.42                   | 11.40                 | 12.5                |          | 0.0 |
| Channel                 |            |         |           |                      |                         |                       |                     |          |     |
| Frequency (MHz)         |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |     |
|                         |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |     |
| 10                      | QPSK       | 1       | 1         | 11.35                | 11.28                   | 11.30                 | 12.5                |          | 0.0 |

| Part27O_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 11.45                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 11.57                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 11.53                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 11.46                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 11.56                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 11.43                    |                        | 12.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 11.50                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 11.61                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 11.52                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 11.45                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 11.46                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 11.55                    |                        | 12.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 11.54                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 11.50                    |                        | 12.5                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         |                       | 11.46                    |                        | 12.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 11.47                    |                        | 12.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 11.52                    |                        | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646666                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 11.48                 | 11.47                    | 11.50                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646334                | 650000                   | 653666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 11.43                 | 11.48                    | 11.44                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 11.44                 | 11.42                    | 11.40                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646666                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3740.02               | 3750                     | 3760.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 11.43                 | 11.53                    | 11.44                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3725.01               | 3750                     | 3774.98                |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 11.51                 | 11.51                    | 11.40                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3720                  | 3750                     | 3760                   |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 11.40                 | 11.50                    | 11.50                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647166                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3715.02               | 3750                     | 3764.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 11.54                 | 11.42                    | 11.44                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3710.01               | 3750                     | 3769.99                |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 11.47                 | 11.46                    | 11.48                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647166                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3707.52               | 3750                     | 3762.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 11.45                 | 11.44                    | 11.54                  | 12.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 11.40                 | 11.40                    | 11.47                  | 12.5                | 0.0      |  |

| Part27Q_n78_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000               | 633332                  |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                      | 14.16                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       |                      | 14.17                   |                       | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 271       |                      | 14.20                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                      | 14.22                   |                       | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                      | 14.24                   |                       | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                      | 14.14                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                      | 14.16                   |                       | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                      | 14.27                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       |                      | 14.22                   |                       | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                      | 14.22                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         |                      | 14.19                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        |                      | 14.25                   |                       | 15.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                      | 14.14                   |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         |                      | 14.19                   |                       | 15.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                      | 14.25                   |                       | 15.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                      | 14.25                   |                       | 15.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                      | 14.21                   |                       | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 14.08                | 14.15                   | 14.18                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK       | 1       | 1         | 14.10                | 14.10                   | 14.09                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 14.07                | 14.07                   | 14.16                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 63480                | 3499.98                 | 3519.99               | Tune-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK       | 1       | 1         | 14.06                | 14.07                   | 14.13                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 14.08                | 14.16                   | 14.17                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 14.01                | 14.09                   | 14.08                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 14.09                | 14.07                   | 14.09                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 14.09                | 14.04                   | 14.04                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.49               | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 14.14                | 14.16                   | 14.10                 | 15.0                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 630500               | 633332                  | 636500                | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | QPSK       | 1       | 1         | 14.12                | 14.11                   | 14.11                 | 15.0                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 8 |                 |         |           |                     |                        |                      |                     |          |
|------------------------|-----------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|
| BW (MHz)               | Modulation      | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
| 100                    | Channel         |         |           |                     | 633332                 |                      |                     |          |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 1         |                     | 14.16                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 137       |                     | 14.20                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 231       |                     | 14.22                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 135       | 0                   | 14.24                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 135       | 138                 | 14.14                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 270       | 0                   | 14.16                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 1         | 0                   | 14.15                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 1         | 0                   | 14.25                  |                      |                     |          |
| 100                    | Channel         |         |           |                     | 633332                 |                      | 15.0                | 0.0      |
|                        | Frequency (MHz) |         |           |                     | 3499.96                |                      |                     |          |
|                        |                 | 1       | 1         | 0                   | 14.21                  |                      |                     |          |
| 50                     | Channel         |         |           |                     | 633300                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3498.96                | 3499.96              |                     |          |
|                        |                 | 1       | 1408      | 14.15               | 14.18                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633308                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3500.96                | 3501.96              |                     |          |
|                        |                 | 1       | 1410      | 14.15               | 14.20                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633334                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3485.51                | 3499.96              | 3514.68             |          |
|                        |                 | 1       | 1427      | 14.17               | 14.22                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633360                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3499.96                | 3499.96              | 3519.99             |          |
|                        |                 | 1       | 1410      | 14.27               | 14.13                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633368                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3475.52                | 3499.96              | 3505.99             |          |
|                        |                 | 1       | 1408      | 14.14               | 14.17                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633134                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3470.51                | 3499.96              | 3504.98             |          |
|                        |                 | 1       | 1414      | 14.16               | 14.05                  | 15.0                 | 0.0                 |          |
| 50                     | Channel         |         |           |                     | 633100                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3465.96                | 3499.96              | 3504.99             |          |
|                        |                 | 1       | 1408      | 14.07               | 14.09                  | 15.0                 | 0.0                 |          |
| 20                     | Channel         |         |           |                     | 633068                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3460.52                | 3499.96              | 3504.99             |          |
|                        |                 | 1       | 1409      | 14.04               | 14.04                  | 15.0                 | 0.0                 |          |
| 15                     | Channel         |         |           |                     | 633050                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3457.5                 | 3499.96              | 3502.49             |          |
|                        |                 | 1       | 1414      | 14.16               | 14.14                  | 15.0                 | 0.0                 |          |
| 10                     | Channel         |         |           |                     | 633034                 | 633332               |                     | MPR (dB) |
|                        | Frequency (MHz) |         |           |                     | 3454.58                | 3499.96              | 3501.98             |          |
|                        |                 | 1       | 1412      | 14.11               | 14.11                  | 15.0                 | 0.0                 |          |

[illegible]

| Band 2_Ant 0    |            |         |           |             |             |             |           |          |   |  |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|-----------|----------|---|--|
| [MHz]           | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Time-slot | MPR (dB) |   |  |
| Channel         |            |         |           |             |             |             |           |          |   |  |
| 20              | QPSK       | 1       | 0         | 18.70       | 18.60       | 19.00       |           |          |   |  |
| 20              | QPSK       | 1       | 49        | 19.35       | 19.27       | 19.75       |           | 20.0     | 0 |  |
| 20              | QPSK       | 1       | 98        | 19.73       | 19.88       | 19.78       |           |          |   |  |
| 20              | QPSK       | 50      | 0         | 19.73       | 19.88       | 19.78       |           |          |   |  |
| 20              | QPSK       | 50      | 24        | 19.75       | 19.75       | 19.75       |           |          |   |  |
| 20              | 16QAM      | 1       | 0         | 19.67       | 19.67       | 19.69       |           |          |   |  |
| 20              | 16QAM      | 1       | 49        | 19.76       | 19.89       | 19.77       |           |          |   |  |
| 20              | 16QAM      | 50      | 0         | 19.76       | 19.89       | 19.77       |           |          |   |  |
| 20              | 16QAM      | 50      | 24        | 19.73       | 19.76       | 19.83       |           |          |   |  |
| 20              | 16QAM      | 100     | 0         | 19.76       | 19.82       | 19.74       |           |          |   |  |
| 20              | 64QAM      | 1       | 0         | 19.71       | 19.88       | 19.75       |           |          |   |  |
| 20              | 64QAM      | 1       | 49        | 19.76       | 19.89       | 19.77       |           |          |   |  |
| 20              | 64QAM      | 1       | 98        | 19.76       | 19.76       | 19.82       |           |          |   |  |
| 20              | 64QAM      | 50      | 0         | 19.76       | 19.76       | 19.79       |           |          |   |  |
| 20              | 64QAM      | 50      | 24        | 19.76       | 19.82       | 19.81       |           |          |   |  |
| 20              | 64QAM      | 100     | 0         | 19.73       | 19.88       | 19.73       |           |          |   |  |
| 20              | 256QAM     | 1       | 49        | 19.60       | 19.77       | 19.74       |           |          |   |  |
| 20              | 256QAM     | 1       | 98        | 19.73       | 19.84       | 19.73       |           |          |   |  |
| 20              | 256QAM     | 50      | 0         | 19.76       | 19.76       | 19.79       |           |          |   |  |
| 20              | 256QAM     | 50      | 24        | 19.76       | 19.82       | 19.81       |           |          |   |  |
| 20              | 256QAM     | 100     | 0         | 19.73       | 19.88       | 19.73       |           |          |   |  |
| 20              | 256QAM     | 100     | 24        | 19.76       | 19.82       | 19.79       |           |          |   |  |
| Channel         |            |         |           |             |             |             |           |          |   |  |
| Frequency [MHz] | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Time-slot | MPR (dB) |   |  |
| 5               | QPSK       | 1       | 0         | 18.77       | 18.60       | 19.00       |           |          |   |  |
| 5               | QPSK       | 1       | 37        | 19.76       | 19.85       | 19.75       |           |          |   |  |
| 5               | QPSK       | 1       | 74        | 19.68       | 19.78       | 19.71       |           |          |   |  |
| 5               | QPSK       | 50      | 0         | 19.76       | 19.85       | 19.75       |           |          |   |  |
| 5               | QPSK       | 50      | 24        | 19.68       | 19.68       | 19.68       |           |          |   |  |
| 5               | QPSK       | 36      | 39        | 19.72       | 19.71       | 19.61       |           |          |   |  |
| 5               | 16QAM      | 1       | 0         | 19.69       | 19.76       | 19.71       |           |          |   |  |
| 5               | 16QAM      | 1       | 37        | 19.61       | 19.62       | 19.70       |           |          |   |  |
| 5               | 16QAM      | 1       | 74        | 19.72       | 19.64       | 19.63       |           |          |   |  |
| 5               | 16QAM      | 36      | 0         | 19.62       | 19.67       | 19.77       |           |          |   |  |
| 5               | 16QAM      | 36      | 39        | 19.62       | 19.67       | 19.77       |           |          |   |  |
| 5               | 16QAM      | 75      | 0         | 19.63       | 19.81       | 19.72       |           |          |   |  |
| 5               | 64QAM      | 1       | 0         | 19.70       | 19.87       | 19.64       |           |          |   |  |
| 5               | 64QAM      | 1       | 37        | 19.70       | 19.87       | 19.64       |           |          |   |  |
| 5               | 64QAM      | 1       | 74        | 19.68       | 19.72       | 19.70       |           |          |   |  |
| 5               | 64QAM      | 36      | 0         | 19.75       | 19.68       | 19.71       |           |          |   |  |
| 5               | 64QAM      | 36      | 39        | 19.75       | 19.68       | 19.71       |           |          |   |  |
| 5               | 64QAM      | 75      | 0         | 19.70       | 19.71       | 19.57       |           |          |   |  |
| 5               | 256QAM     | 1       | 37        | 19.73       | 19.81       | 19.73       |           |          |   |  |
| 5               | 256QAM     | 1       | 74        | 19.69       | 19.72       | 19.69       |           |          |   |  |
| 5               | 256QAM     | 1       | 112       | 19.69       | 19.79       | 19.81       |           |          |   |  |
| 5               | 256QAM     | 36      | 0         | 19.73       | 19.76       | 19.73       |           |          |   |  |
| 5               | 256QAM     | 36      | 39        | 19.61       | 19.76       | 19.63       |           |          |   |  |
| 5               | 256QAM     | 75      | 0         | 19.63       | 19.73       | 19.62       |           |          |   |  |
| 5               | 256QAM     | 75      | 39        | 19.65       | 19.68       | 19.70       |           |          |   |  |
| Channel         |            |         |           |             |             |             |           |          |   |  |
| Frequency [MHz] | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Time-slot | MPR (dB) |   |  |
| 15              | QPSK       | 1       | 0         | 18.62       | 18.60       | 19.00       |           |          |   |  |
| 15              | QPSK       | 1       | 12        | 19.77       | 19.87       | 19.81       |           |          |   |  |
| 15              | QPSK       | 1       | 24        | 19.69       | 19.79       | 19.62       |           |          |   |  |
| 15              | QPSK       | 50      | 0         | 19.76       | 19.85       | 19.75       |           |          |   |  |
| 15              | QPSK       | 50      | 12        | 19.63       | 19.72       | 19.68       |           |          |   |  |
| 15              | QPSK       | 12      | 13        | 19.70       | 19.62       | 19.68       |           |          |   |  |
| 15              | 16QAM      | 1       | 0         | 19.68       | 19.76       | 19.71       |           |          |   |  |
| 15              | 16QAM      | 1       | 12        | 19.65       | 19.85       | 19.75       |           |          |   |  |
| 15              | 16QAM      | 1       | 24        | 19.72       | 19.60       | 19.69       |           |          |   |  |
| 15              | 16QAM      | 12      | 0         | 19.67       | 19.68       | 19.72       |           |          |   |  |
| 15              | 16QAM      | 12      | 13        | 19.73       | 19.63       | 19.73       |           |          |   |  |
| 15              | 16QAM      | 25      | 0         | 19.66       | 19.73       | 19.66       |           |          |   |  |
| 15              | 16QAM      | 25      | 13        | 19.66       | 19.72       | 19.66       |           |          |   |  |
| 15              | 64QAM      | 1       | 0         | 19.69       | 19.73       | 19.66       |           |          |   |  |
| 15              | 64QAM      | 1       | 12        | 19.67       | 19.62       | 19.68       |           |          |   |  |
| 15              | 64QAM      | 1       | 24        | 19.76       | 19.69       | 19.67       |           |          |   |  |
| 15              | 64QAM      | 12      | 0         | 19.67       | 19.62       | 19.68       |           |          |   |  |
| 15              | 64QAM      | 12      | 13        | 19.76       | 19.72       | 19.66       |           |          |   |  |
| 15              | 64QAM      | 25      | 0         | 19.69       | 19.66       | 19.68       |           |          |   |  |
| 15              | 64QAM      | 25      | 13        | 19.71       | 19.78       | 19.71       |           |          |   |  |
| 15              | 256QAM     | 1       | 12        | 19.79       | 19.63       | 19.71       |           |          |   |  |
| 15              | 256QAM     | 1       | 24        | 19.69       | 19.76       | 19.71       |           |          |   |  |
| 15              | 256QAM     | 12      | 0         | 19.64       | 19.69       | 19.68       |           |          |   |  |
| 15              | 256QAM     | 12      | 7         | 19.66       | 19.72       | 19.66       |           |          |   |  |
| 15              | 256QAM     | 12      | 13        | 19.72       | 19.77       | 19.70       |           |          |   |  |
| 15              | 256QAM     | 25      | 0         | 19.70       | 19.76       | 19.70       |           |          |   |  |
| Channel         |            |         |           |             |             |             |           |          |   |  |
| Frequency [MHz] | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Time-slot | MPR (dB) |   |  |
| 3               | QPSK       | 1       | 0         | 18.81       | 18.83       | 19.21       |           |          |   |  |
| 3               | QPSK       | 1       | 14        | 19.68       | 19.72       | 19.64       |           |          |   |  |
| 3               | QPSK       | 1       | 28        | 19.68       | 19.68       | 19.68       |           |          |   |  |
| 3               | QPSK       | 8       | 4         | 19.66       | 19.66       | 19.68       |           |          |   |  |
| 3               | QPSK       | 8       | 7         | 19.64       | 19.77       | 19.65       |           |          |   |  |
| 3               | 16QAM      | 1       | 0         | 19.65       | 19.72       | 19.67       |           |          |   |  |
| 3               | 16QAM      | 1       | 14        | 19.64       | 19.75       | 19.71       |           |          |   |  |
| 3               | 16QAM      | 1       | 28        | 19.74       | 19.63       | 19.60       |           |          |   |  |
| 3               | 16QAM      | 8       | 4         | 19.71       | 19.68       | 19.77       |           |          |   |  |
| 3               | 16QAM      | 8       | 7         | 19.64       | 19.77       | 19.65       |           |          |   |  |
| 3               | 16QAM      | 15      | 0         | 19.63       | 19.75       | 19.66       |           |          |   |  |
| 3               | 64QAM      | 1       | 0         | 19.68       | 19.73       | 19.67       |           |          |   |  |
| 3               | 64QAM      | 1       | 14        | 19.67       | 19.73       | 19.67       |           |          |   |  |
| 3               | 64QAM      | 8       | 0         | 19.64       | 19.68       | 19.68       |           |          |   |  |
| 3               | 64QAM      | 8       | 7         | 19.74       | 19.62       | 19.71       |           |          |   |  |
| 3               | 64QAM      | 15      | 0         | 19.65       | 19.77       | 19.67       |           |          |   |  |
| 3               | 256QAM     | 1       | 0         | 19.64       | 19.68       | 19.68       |           |          |   |  |
| 3               | 256QAM     | 1       | 8         | 19.75       | 19.66       | 19.70       |           |          |   |  |
| 3               | 256QAM     | 1       | 14        | 19.69       | 19.74       | 19.67       |           |          |   |  |
| 3               | 256QAM     | 8       | 0         | 19.64       | 19.71       | 19.69       |           |          |   |  |
| 3               | 256QAM     | 8       | 4         | 19.61       | 19.81       | 19.73       |           |          |   |  |
| 3               | 256QAM     | 15      | 0         | 19.61       | 19.74       | 19.70       |           |          |   |  |
| 3               | 256QAM     | 15      | 8         | 19.75       | 19.76       | 19.75       |           |          |   |  |
| Channel         |            |         |           |             |             |             |           |          |   |  |
| Frequency [MHz] | Modulation | RB Size | RB Offset | Power [dBm] | Power [dBm] | Power [dBm] | Time-slot | MPR (dB) |   |  |
| 14              | QPSK       | 1       | 0         | 19.78       | 19.78       | 19.82       |           |          |   |  |
| 14              | QPSK       | 1       | 3         | 19.81       | 19.87       | 19.87       |           |          |   |  |
| 14              | QPSK       | 1       | 6         | 19.65       | 19.77       | 19.64       |           |          |   |  |
| 14              | QPSK       | 3       | 0         | 19.68       | 19.80       | 19.67       |           |          |   |  |
| 14              | QPSK       | 3       | 1         | 19.60       | 19.66       | 19.73       |           |          |   |  |
| 14              | 16QAM      | 1       | 0         | 19.55       | 19.84       | 19.62       |           |          |   |  |
| 14              | 16QAM      | 1       | 3         | 19.73       | 19.79       | 19.68       |           |          |   |  |
| 14              | 16QAM      | 1       | 6         | 19.62       | 19.77       | 19.68       |           |          |   |  |
| 14              | 16QAM      | 3       | 0         | 19.63       | 19.69       | 19.66       |           |          |   |  |
| 14              | 16QAM      | 3       | 1         | 19.71       | 19.68       | 19.77       |           |          |   |  |
| 14              | 16QAM      | 6       | 0         | 19.68       | 19.63       | 19.63       |           |          |   |  |
| 14              | 16QAM      | 6       | 3         | 19.73       | 19.75       | 19.68       |           |          |   |  |
| 14              | 16QAM      | 3       | 6         | 19.66       | 19.77       | 19.67       |           |          |   |  |
| 14              | 64QAM      | 1       | 0         | 19.69       | 19.75       | 19.75       |           |          |   |  |
| 14              | 64QAM      | 1       | 3         | 19.72       | 19.75       | 19.62       |           |          |   |  |
| 14              | 64QAM      | 3       | 0         | 19.65       | 19.77       | 19.67       |           |          |   |  |
| 14              | 64QAM      | 3       | 1         | 19.63       | 19.73       | 19.69       |           |          |   |  |
| 14              | 256QAM     | 1       | 0         | 19.63       | 19.81       | 19.60       |           |          |   |  |
| 14              | 256QAM     | 1       | 3         | 19.75       | 19.76       | 19.69       |           |          |   |  |
| 14              | 256QAM     | 3       | 0         | 19.63       | 19.78       | 19.70       |           |          |   |  |
| 14              | 256QAM     | 3       | 1         | 19.69       | 19.81       | 19.79       |           |          |   |  |
| 14              | 256QAM     | 6       | 0         | 19.73       | 19.76       | 19.73       |           |          |   |  |

| Band 2, Ant 1   |            |         |           |                      |                      |                       |                   |                    |             |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|-------------------|--------------------|-------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Freq (dBm) | Power Mid Freq (dBm) | Power High Freq (dBm) | Turn-on time (ms) | Turn-off time (ms) | Notes (dBm) |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 20              | QPSK       | 1       | 0         | 21.79                | 21.20                | 21.31                 |                   |                    |             |
| 20              | QPSK       | 1       | 49        | 21.23                | 21.39                | 21.37                 |                   |                    | 22.5 0      |
| 20              | QPSK       | 1       | 98        | 21.23                | 21.39                | 21.37                 |                   |                    |             |
| 20              | QPSK       | 80      | 0         | 21.32                | 21.33                | 21.28                 |                   |                    |             |
| 20              | QPSK       | 80      | 24        | 21.31                | 21.26                | 21.23                 |                   |                    | 22.5 0      |
| 20              | QPSK       | 80      | 49        | 21.28                | 21.32                | 21.33                 |                   |                    |             |
| 20              | QPSK       | 800     | 0         | 21.30                | 21.32                | 21.31                 |                   |                    |             |
| 20              | 16QAM      | 1       | 0         | 21.20                | 21.20                | 21.22                 |                   |                    |             |
| 20              | 16QAM      | 1       | 49        | 21.20                | 21.20                | 21.22                 |                   |                    | 22.5 0      |
| 20              | 16QAM      | 1       | 99        | 21.26                | 21.20                | 21.21                 |                   |                    |             |
| 20              | 16QAM      | 50      | 0         | 21.21                | 21.33                | 21.31                 |                   |                    |             |
| 20              | 16QAM      | 50      | 24        | 21.28                | 21.28                | 21.28                 |                   |                    | 22.5 0      |
| 20              | 16QAM      | 50      | 49        | 21.28                | 21.22                | 21.28                 |                   |                    |             |
| 20              | 16QAM      | 500     | 0         | 21.22                | 21.33                | 21.34                 |                   |                    |             |
| 20              | 16QAM      | 500     | 24        | 21.28                | 21.28                | 21.28                 |                   |                    | 22.5 0      |
| 20              | 16QAM      | 500     | 49        | 21.28                | 21.22                | 21.28                 |                   |                    |             |
| 20              | 64QAM      | 1       | 49        | 21.28                | 21.22                | 21.20                 |                   |                    | 22.5 0      |
| 20              | 64QAM      | 1       | 99        | 21.33                | 21.33                | 21.20                 |                   |                    |             |
| 20              | 64QAM      | 50      | 0         | 20.22                | 20.21                | 20.21                 |                   |                    |             |
| 20              | 64QAM      | 50      | 24        | 20.33                | 20.31                | 20.28                 |                   |                    | 21.5 1      |
| 20              | 64QAM      | 500     | 0         | 18.28                | 18.21                | 18.29                 |                   |                    |             |
| 20              | 256QAM     | 1       | 0         | 18.28                | 18.22                | 18.28                 |                   |                    |             |
| 20              | 256QAM     | 1       | 49        | 18.28                | 18.30                | 18.33                 |                   |                    | 19.5 1      |
| 20              | 256QAM     | 1       | 99        | 18.28                | 18.22                | 18.28                 |                   |                    |             |
| 20              | 256QAM     | 50      | 0         | 18.24                | 18.28                | 18.28                 |                   |                    |             |
| 20              | 256QAM     | 50      | 24        | 18.33                | 18.29                | 18.21                 |                   |                    | 19.5 1      |
| 20              | 256QAM     | 50      | 49        | 18.28                | 18.22                | 18.28                 |                   |                    |             |
| 20              | 256QAM     | 500     | 0         | 18.27                | 18.23                | 18.20                 |                   |                    |             |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 18              | QPSK       | 1       | 0         | 21.75                | 21.60                | 21.28                 |                   |                    |             |
| 18              | QPSK       | 1       | 37        | 21.18                | 21.30                | 21.23                 |                   |                    | 22.5 0      |
| 18              | QPSK       | 1       | 74        | 21.20                | 21.28                | 21.23                 |                   |                    |             |
| 18              | QPSK       | 36      | 0         | 21.23                | 21.36                | 21.28                 |                   |                    |             |
| 18              | QPSK       | 36      | 20        | 21.28                | 21.31                | 21.24                 |                   |                    | 22.5 0      |
| 18              | QPSK       | 36      | 37        | 21.23                | 21.31                | 21.24                 |                   |                    |             |
| 18              | QPSK       | 36      | 0         | 21.20                | 21.20                | 21.27                 |                   |                    |             |
| 18              | 16QAM      | 1       | 0         | 21.08                | 21.08                | 21.07                 |                   |                    |             |
| 18              | 16QAM      | 1       | 37        | 21.07                | 21.09                | 21.08                 |                   |                    | 22.5 0      |
| 18              | 16QAM      | 1       | 74        | 21.20                | 21.17                | 21.14                 |                   |                    |             |
| 18              | 16QAM      | 36      | 0         | 21.07                | 21.30                | 21.21                 |                   |                    |             |
| 18              | 16QAM      | 36      | 20        | 21.12                | 21.22                | 21.25                 |                   |                    | 22.5 0      |
| 18              | 16QAM      | 36      | 37        | 21.22                | 21.19                | 21.25                 |                   |                    |             |
| 18              | 16QAM      | 75      | 0         | 21.13                | 21.19                | 21.20                 |                   |                    |             |
| 18              | 16QAM      | 75      | 20        | 21.18                | 21.18                | 21.17                 |                   |                    |             |
| 18              | 64QAM      | 1       | 37        | 21.23                | 21.15                | 21.07                 |                   |                    | 22.5 0      |
| 18              | 64QAM      | 1       | 74        | 21.27                | 21.29                | 21.18                 |                   |                    |             |
| 18              | 64QAM      | 36      | 0         | 20.32                | 20.29                | 20.16                 |                   |                    | 21.5 1      |
| 18              | 64QAM      | 36      | 20        | 20.32                | 20.29                | 20.16                 |                   |                    |             |
| 18              | 64QAM      | 36      | 37        | 20.15                | 20.20                | 20.14                 |                   |                    |             |
| 18              | 64QAM      | 75      | 0         | 18.27                | 18.27                | 18.23                 |                   |                    |             |
| 18              | 256QAM     | 1       | 0         | 18.27                | 18.16                | 18.28                 |                   |                    |             |
| 18              | 256QAM     | 1       | 37        | 18.29                | 18.23                | 18.31                 |                   |                    | 19.5 3      |
| 18              | 256QAM     | 1       | 74        | 18.27                | 18.27                | 18.23                 |                   |                    |             |
| 18              | 256QAM     | 36      | 0         | 18.23                | 18.22                | 18.18                 |                   |                    |             |
| 18              | 256QAM     | 36      | 20        | 18.20                | 18.29                | 18.18                 |                   |                    | 19.5 3      |
| 18              | 256QAM     | 36      | 37        | 18.28                | 18.22                | 18.21                 |                   |                    |             |
| 18              | 256QAM     | 75      | 0         | 18.18                | 18.09                | 18.18                 |                   |                    |             |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 16              | QPSK       | 1       | 0         | 21.65                | 21.56                | 21.15                 | Turn-on time (ms) | Turn-off time (ms) | Notes (dBm) |
| 16              | QPSK       | 1       | 25        | 21.18                | 21.28                | 21.36                 |                   |                    | 22.5 0      |
| 16              | QPSK       | 1       | 49        | 21.18                | 21.14                | 21.23                 |                   |                    |             |
| 16              | QPSK       | 25      | 0         | 21.24                | 21.23                | 21.21                 |                   |                    |             |
| 16              | QPSK       | 25      | 12        | 21.23                | 21.27                | 21.19                 |                   |                    | 22.5 0      |
| 16              | QPSK       | 25      | 37        | 21.23                | 21.27                | 21.19                 |                   |                    |             |
| 16              | QPSK       | 60      | 0         | 21.18                | 21.34                | 21.30                 |                   |                    |             |
| 16              | 16QAM      | 1       | 0         | 21.18                | 21.08                | 21.21                 |                   |                    |             |
| 16              | 16QAM      | 1       | 25        | 21.18                | 21.18                | 21.21                 |                   |                    | 22.5 0      |
| 16              | 16QAM      | 1       | 49        | 21.18                | 21.18                | 21.21                 |                   |                    |             |
| 16              | 16QAM      | 25      | 0         | 21.14                | 21.19                | 21.19                 |                   |                    |             |
| 16              | 16QAM      | 25      | 12        | 21.18                | 21.28                | 21.28                 |                   |                    | 22.5 0      |
| 16              | 16QAM      | 25      | 37        | 21.18                | 21.10                | 21.17                 |                   |                    |             |
| 16              | 16QAM      | 50      | 0         | 21.14                | 21.29                | 21.29                 |                   |                    |             |
| 16              | 16QAM      | 50      | 12        | 21.24                | 21.28                | 21.28                 |                   |                    | 22.5 0      |
| 16              | 64QAM      | 1       | 49        | 21.18                | 21.26                | 21.18                 |                   |                    |             |
| 16              | 64QAM      | 25      | 0         | 20.03                | 20.17                | 20.04                 |                   |                    | 21.5 1      |
| 16              | 64QAM      | 25      | 12        | 20.29                | 20.13                | 20.21                 |                   |                    |             |
| 16              | 64QAM      | 25      | 25        | 20.23                | 20.17                | 20.23                 |                   |                    |             |
| 16              | 256QAM     | 1       | 0         | 18.27                | 18.08                | 18.18                 |                   |                    |             |
| 16              | 256QAM     | 1       | 25        | 18.21                | 18.09                | 18.27                 |                   |                    | 19.5 1      |
| 16              | 256QAM     | 1       | 49        | 18.20                | 18.22                | 18.18                 |                   |                    |             |
| 16              | 256QAM     | 25      | 0         | 18.10                | 18.23                | 18.19                 |                   |                    |             |
| 16              | 256QAM     | 25      | 12        | 18.26                | 18.28                | 18.13                 |                   |                    | 19.5 3      |
| 16              | 256QAM     | 25      | 25        | 18.27                | 18.16                | 18.23                 |                   |                    |             |
| 16              | 256QAM     | 50      | 0         | 18.12                | 18.18                | 18.03                 |                   |                    |             |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 5               | QPSK       | 1       | 0         | 21.04                | 21.13                | 21.21                 | Turn-on time (ms) | Turn-off time (ms) | Notes (dBm) |
| 5               | QPSK       | 1       | 12        | 21.18                | 21.33                | 21.36                 |                   |                    | 22.5 0      |
| 5               | QPSK       | 1       | 24        | 21.18                | 21.18                | 21.18                 |                   |                    |             |
| 5               | QPSK       | 12      | 0         | 21.23                | 21.19                | 21.23                 |                   |                    | 22.5 0      |
| 5               | QPSK       | 12      | 7         | 21.20                | 21.28                | 21.22                 |                   |                    |             |
| 5               | QPSK       | 12      | 13        | 21.16                | 21.26                | 21.21                 |                   |                    | 22.5 0      |
| 5               | QPSK       | 12      | 25        | 21.27                | 21.19                | 21.28                 |                   |                    |             |
| 5               | 16QAM      | 1       | 0         | 21.08                | 21.10                | 21.08                 |                   |                    | 22.5 0      |
| 5               | 16QAM      | 1       | 12        | 21.18                | 21.11                | 21.19                 |                   |                    |             |
| 5               | 16QAM      | 1       | 24        | 21.14                | 21.14                | 21.14                 |                   |                    | 22.5 0      |
| 5               | 16QAM      | 12      | 0         | 21.16                | 21.31                | 21.30                 |                   |                    |             |
| 5               | 16QAM      | 12      | 7         | 21.25                | 21.17                | 21.20                 |                   |                    | 22.5 0      |
| 5               | 16QAM      | 12      | 13        | 21.18                | 21.18                | 21.18                 |                   |                    |             |
| 5               | 16QAM      | 25      | 0         | 21.07                | 21.27                | 21.31                 |                   |                    |             |
| 5               | 64QAM      | 1       | 12        | 21.16                | 21.27                | 21.31                 |                   |                    | 22.5 0      |
| 5               | 64QAM      | 1       | 24        | 21.12                | 21.28                | 21.29                 |                   |                    |             |
| 5               | 64QAM      | 12      | 7         | 20.27                | 20.19                | 20.20                 |                   |                    | 21.5 1      |
| 5               | 64QAM      | 12      | 13        | 20.22                | 20.27                | 20.20                 |                   |                    |             |
| 5               | 64QAM      | 25      | 0         | 18.18                | 18.18                | 18.18                 |                   |                    | 19.5 3      |
| 5               | 256QAM     | 1       | 12        | 18.11                | 18.21                | 18.27                 |                   |                    |             |
| 5               | 256QAM     | 1       | 24        | 18.18                | 18.18                | 18.18                 |                   |                    |             |
| 5               | 256QAM     | 12      | 0         | 18.18                | 18.17                | 18.25                 |                   |                    |             |
| 5               | 256QAM     | 12      | 7         | 18.23                | 18.16                | 18.18                 |                   |                    | 19.5 3      |
| 5               | 256QAM     | 12      | 13        | 18.20                | 18.18                | 18.18                 |                   |                    |             |
| 5               | 256QAM     | 25      | 0         | 18.25                | 18.20                | 18.08                 |                   |                    |             |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 3               | QPSK       | 1       | 0         | 21.15                | 21.16                | 21.23                 | Turn-on time (ms) | Turn-off time (ms) | Notes (dBm) |
| 3               | QPSK       | 1       | 6         | 21.22                | 21.28                | 21.34                 |                   |                    | 22.5 0      |
| 3               | QPSK       | 1       | 14        | 21.06                | 21.25                | 21.20                 |                   |                    |             |
| 3               | QPSK       | 1       | 21        | 21.18                | 21.22                | 21.23                 |                   |                    | 22.5 0      |
| 3               | QPSK       | 8       | 4         | 21.19                | 21.20                | 21.27                 |                   |                    |             |
| 3               | QPSK       | 8       | 7         | 21.19                | 21.13                | 21.10                 |                   |                    | 22.5 0      |
| 3               | 16QAM      | 1       | 0         | 21.05                | 21.24                | 21.24                 |                   |                    |             |
| 3               | 16QAM      | 1       | 6         | 21.19                | 21.10                | 21.10                 |                   |                    | 22.5 0      |
| 3               | 16QAM      | 1       | 8         | 21.17                | 21.21                | 21.20                 |                   |                    |             |
| 3               | 16QAM      | 8       | 4         | 21.26                | 21.28                | 21.28                 |                   |                    | 22.5 0      |
| 3               | 16QAM      | 8       | 7         | 21.22                | 21.07                | 21.18                 |                   |                    |             |
| 3               | 64QAM      | 15      | 0         | 21.08                | 21.24                | 21.25                 |                   |                    |             |
| 3               | 64QAM      | 1       | 0         | 21.20                | 21.19                | 21.15                 |                   |                    | 22.5 0      |
| 3               | 64QAM      | 1       | 6         | 21.26                | 21.07                | 21.18                 |                   |                    |             |
| 3               | 64QAM      | 8       | 0         | 20.13                | 20.08                | 20.18                 |                   |                    | 21.5 1      |
| 3               | 64QAM      | 8       | 30        | 20.32                | 20.09                | 20.09                 |                   |                    |             |
| 3               | 64QAM      | 8       | 7         | 20.15                | 20.19                | 20.22                 |                   |                    |             |
| 3               | 256QAM     | 15      | 0         | 18.32                | 18.08                | 18.19                 |                   |                    |             |
| 3               | 256QAM     | 1       | 8         | 18.11                | 18.15                | 18.21                 |                   |                    | 19.5 3      |
| 3               | 256QAM     | 1       | 8         | 18.21                | 18.23                | 18.29                 |                   |                    |             |
| 3               | 256QAM     | 14      | 0         | 18.18                | 18.12                | 18.12                 |                   |                    |             |
| 3               | 256QAM     | 8       | 0         | 18.23                | 18.14                | 18.14                 |                   |                    | 19.5 3      |
| 3               | 256QAM     | 8       | 4         | 18.30                | 18.23                | 18.20                 |                   |                    |             |
| 3               | 256QAM     | 15      | 0         | 18.18                | 18.14                | 18.15                 |                   |                    |             |
| Channel         |            |         |           |                      |                      |                       |                   |                    |             |
| Frequency (MHz) |            |         |           |                      |                      |                       |                   |                    |             |
| 1.4             | QPSK       | 1       | 0         | 21.12                | 21.23                | 21.21                 | Turn-on time (ms) | Turn-off time (ms) | Notes (dBm) |
| 1.4             | QPSK       | 1       | 3         | 21.21                | 21.27                | 21.23                 |                   |                    | 22.5 0      |
| 1.4             | QPSK       | 1       | 5         | 21.18                | 21.22                | 21.13                 |                   |                    |             |
| 1.4             | QPSK       | 1       | 8         | 21.18                | 21.23                | 21.20                 |                   |                    |             |
| 1.4             | QPSK       | 3       | 1         | 21.26                | 21.23                | 21.20                 |                   |                    | 22.5 0      |
| 1.4             | 16QAM      | 1       | 0         | 21.11                | 21.17                | 21.07                 |                   |                    |             |
| 1.4             | 16QAM      | 1       | 3         | 21.18                | 21.12                | 21.09                 |                   |                    | 22.5 0      |
| 1.4             | 16QAM      | 1       | 5         | 21.18                | 21.12                | 21.09                 |                   |                    |             |
| 1.4             | 16QAM      | 3       | 1         | 21.24                | 21.14                | 21.25                 |                   |                    |             |
| 1.4             | 16QAM      | 3       | 2         | 21.21                | 21.13                | 21.18                 |                   |                    | 22.5 0      |
| 1.4             | 16QAM      | 8       | 0         | 21.08                | 21.23                | 21.29                 |                   |                    | 22.5 0      |
| 1.4             | 64QAM      | 1       | 0         | 21.23                | 21.28                | 21.19                 |                   |                    |             |
| 1.4             | 64QAM      | 1       | 3         | 21.27                | 21.15                | 21.15                 |                   |                    | 22.5 0      |
| 1.4             | 64QAM      | 1       | 5         | 21.22                | 21.25                | 21.22                 |                   |                    |             |
| 1.4             | 64QAM      | 3       | 0         | 21.20                | 21.22                | 21.20                 |                   |                    | 22.5 0      |
| 1.4             | 64QAM      | 3       | 2         | 21.14                | 21.15                | 21.07                 |                   |                    | 21.5 1      |
| 1.4             | 256QAM     | 1       | 0         | 18.22                | 18.17                | 18.15                 |                   |                    |             |
| 1.4             | 256QAM     | 1       | 3         | 18.20                | 18.18                | 18.28                 |                   |                    | 19.5 3      |
| 1.4             | 256QAM     | 1       | 3         | 18.21                | 18.21                | 18.19                 |                   |                    |             |
| 1.4             | 256QAM     | 3       | 0         | 18.20                | 18.18                | 18.18                 |                   |                    |             |
| 1.4             | 256QAM     | 3       | 1         | 18.26                | 18.15                | 18.06                 |                   |                    |             |
| 1.4             | 256QAM     | 8       | 0         | 18.18                | 18.17                | 18.12                 |                   |                    | 19.5 1      |
| 1.4             | 256QAM     | 8       | 1         | 18.20                | 18.12                | 18.14                 |                   |                    |             |

| BY (MHz)        | Mode(s) | SSB | RF Offset | Low Freq | Mode(s) | High Freq | Power (dBm) | Time-up (min) | Min. (dB) |
|-----------------|---------|-----|-----------|----------|---------|-----------|-------------|---------------|-----------|
| Channel         |         |     |           |          |         |           |             |               |           |
| Frequency (MHz) |         |     |           | 1720     | 1725    | 1730      | 1735        |               |           |
| 20              | QPSK    | 1   | 0         | 20.85    | 20.90   | 20.92     |             |               |           |
| 20              | QPSK    | 1   | 49        | 20.88    | 20.91   | 20.95     |             | 21.9          | 0         |
| 20              | QPSK    | 50  | 0         | 20.81    | 20.83   | 20.84     |             |               |           |
| 20              | QPSK    | 50  | 24        | 20.78    | 20.78   | 20.75     |             | 21.9          | 0         |
| 20              | QPSK    | 100 | 0         | 20.81    | 20.83   | 20.84     |             |               |           |
| 20              | QPSK    | 100 | 0         | 20.68    | 20.67   | 20.78     |             |               |           |
| 20              | HQDM    | 1   | 0         | 20.70    | 20.81   | 20.67     |             |               |           |
| 20              | HQDM    | 1   | 49        | 20.70    | 20.81   | 20.67     |             | 21.9          | 0         |
| 20              | HQDM    | 50  | 0         | 20.80    | 20.81   | 20.82     |             |               |           |
| 20              | HQDM    | 50  | 24        | 20.81    | 20.83   | 20.82     |             |               |           |
| 20              | HQDM    | 100 | 0         | 20.71    | 20.82   | 20.83     |             |               |           |
| 20              | HQDM    | 100 | 0         | 20.71    | 20.82   | 20.75     |             |               |           |
| 20              | HQDM    | 1   | 49        | 20.81    | 20.79   | 20.84     |             | 21.9          | 0         |
| 20              | HQDM    | 50  | 99        | 20.83    | 20.81   | 20.80     |             |               |           |
| 20              | HQDM    | 50  | 99        | 20.83    | 20.81   | 20.82     |             |               |           |
| 20              | HQDM    | 50  | 24        | 20.81    | 20.81   | 20.82     |             | 21.9          | 0         |
| 20              | HQDM    | 100 | 0         | 20.81    | 20.83   | 20.85     |             |               |           |
| 20              | HQDM    | 100 | 0         | 20.81    | 20.83   | 20.78     |             |               |           |
| 20              | HQDM    | 1   | 0         | 19.80    | 19.85   | 19.79     |             |               |           |
| 20              | HQDM    | 1   | 49        | 19.81    | 19.87   | 19.81     |             | 20.9          | 1         |
| 20              | HQDM    | 50  | 0         | 19.76    | 19.85   | 19.80     |             |               |           |
| 20              | HQDM    | 50  | 0         | 19.76    | 19.85   | 19.79     |             |               |           |
| 20              | HQDM    | 50  | 24        | 19.81    | 19.85   | 19.87     |             |               |           |
| 20              | HQDM    | 50  | 24        | 19.81    | 19.85   | 19.87     |             |               |           |
| 20              | HQDM    | 50  | 99        | 19.75    | 19.82   | 19.76     |             | 20.9          |           |
| 20              | HQDM    | 100 | 0         | 19.73    | 19.85   | 19.79     |             |               |           |
| Frequency (MHz) |         |     |           | 1717.5   | 1722.5  | 1727.5    | 1732.5      |               |           |
| 15              | QPSK    | 1   | 0         | 20.83    | 20.89   | 20.73     |             |               |           |
| 15              | QPSK    | 1   | 27        | 20.78    | 20.88   | 20.84     |             | 21.9          | 0         |
| 15              | QPSK    | 50  | 0         | 20.68    | 20.71   | 20.73     |             |               |           |
| 15              | QPSK    | 36  | 0         | 20.68    | 20.71   | 20.73     |             |               |           |
| 15              | QPSK    | 36  | 20        | 20.78    | 20.82   | 20.75     |             | 21.9          | 0         |
| 15              | QPSK    | 36  | 20        | 20.78    | 20.82   | 20.75     |             |               |           |
| 15              | QPSK    | 75  | 0         | 20.67    | 20.68   | 20.68     |             |               |           |
| 15              | QPSK    | 75  | 0         | 20.67    | 20.68   | 20.72     |             |               |           |
| 15              | HQDM    | 1   | 27        | 20.84    | 20.87   | 20.83     |             | 21.9          | 1         |
| 15              | HQDM    | 1   | 27        | 20.75    | 20.81   | 20.68     |             |               |           |
| 15              | HQDM    | 50  | 0         | 20.68    | 20.68   | 20.72     |             |               |           |
| 15              | HQDM    | 36  | 20        | 20.68    | 20.63   | 20.77     |             |               |           |
| 15              | HQDM    | 36  | 20        | 20.71    | 20.73   | 20.77     |             |               |           |
| 15              | HQDM    | 36  | 20        | 20.71    | 20.73   | 20.70     |             |               |           |
| 15              | HQDM    | 75  | 0         | 20.73    | 20.67   | 20.64     |             |               |           |
| 15              | HQDM    | 1   | 27        | 20.68    | 20.68   | 20.74     |             | 21.9          | 0         |
| 15              | HQDM    | 1   | 27        | 20.68    | 20.68   | 20.74     |             |               |           |
| 15              | HQDM    | 36  | 0         | 20.71    | 20.70   | 20.77     |             |               |           |
| 15              | HQDM    | 36  | 0         | 20.77    | 20.74   | 20.79     |             |               |           |
| 15              | HQDM    | 75  | 0         | 20.74    | 20.70   | 20.68     |             |               |           |
| 15              | HQDM    | 1   | 0         | 19.68    | 19.72   | 19.69     |             |               |           |
| 15              | HQDM    | 1   | 0         | 19.68    | 19.72   | 19.69     |             | 20.9          | 1         |
| 15              | HQDM    | 1   | 0         | 19.68    | 19.72   | 19.69     |             |               |           |
| 15              | HQDM    | 1   | 14        | 19.63    | 19.63   | 19.64     |             | 20.9          | 1         |
| 15              | HQDM    | 36  | 0         | 19.69    | 19.74   | 19.64     |             |               |           |
| 15              | HQDM    | 36  | 0         | 19.69    | 19.74   | 19.64     |             |               |           |
| Frequency (MHz) |         |     |           | 1715     | 1720.5  | 1725.5    | 1730.5      |               |           |
| 10              | QPSK    | 1   | 0         | 20.74    | 20.78   | 20.69     |             |               |           |
| 10              | QPSK    | 1   | 27        | 20.69    | 20.84   | 20.78     |             | 21.9          | 0         |
| 10              | QPSK    | 25  | 0         | 20.68    | 20.69   | 20.70     |             |               |           |
| 10              | QPSK    | 25  | 0         | 20.71    | 20.74   | 20.63     |             |               |           |
| 10              | QPSK    | 25  | 0         | 20.71    | 20.74   | 20.70     |             |               |           |
| 10              | QPSK    | 25  | 20        | 20.66    | 20.62   | 20.69     |             |               |           |
| 10              | QPSK    | 50  | 0         | 20.68    | 20.74   | 20.71     |             |               |           |
| 10              | QPSK    | 50  | 0         | 20.68    | 20.74   | 20.71     |             |               |           |
| 10              | HQDM    | 1   | 25        | 20.56    | 20.62   | 20.75     |             |               |           |
| 10              | HQDM    | 1   | 49        | 20.73    | 20.80   | 20.72     |             |               |           |
| 10              | HQDM    | 1   | 49        | 20.73    | 20.80   | 20.72     |             |               |           |
| 10              | HQDM    | 25  | 0         | 20.70    | 20.73   | 20.73     |             |               |           |
| 10              | HQDM    | 25  | 12        | 20.71    | 20.73   | 20.73     |             |               |           |
| 10              | HQDM    | 25  | 20        | 20.68    | 20.71   | 20.72     |             | 21.9          | 0         |
| 10              | HQDM    | 25  | 20        | 20.68    | 20.71   | 20.72     |             |               |           |
| 10              | HQDM    | 50  | 0         | 20.75    | 20.79   | 20.71     |             |               |           |
| 10              | HQDM    | 50  | 0         | 20.75    | 20.79   | 20.71     |             |               |           |
| 10              | HQDM    | 25  | 12        | 20.71    | 20.71   | 20.80     |             | 21.9          | 0         |
| 10              | HQDM    | 25  | 12        | 20.71    | 20.71   | 20.80     |             |               |           |
| 10              | HQDM    | 50  | 0         | 20.77    | 20.69   | 20.70     |             |               |           |
| 10              | HQDM    | 50  | 0         | 20.77    | 20.69   | 20.70     |             |               |           |
| 10              | HQDM    | 25  | 0         | 19.74    | 19.73   | 19.70     |             | 20.9          | 1         |
| 10              | HQDM    | 25  | 0         | 19.74    | 19.73   | 19.70     |             |               |           |
| 10              | HQDM    | 25  | 12        | 19.72    | 19.72   | 19.78     |             |               |           |
| 10              | HQDM    | 25  | 12        | 19.72    | 19.72   | 19.78     |             |               |           |
| 10              | HQDM    | 25  | 20        | 19.65    | 19.65   | 19.65     |             | 20.9          | 1         |
| 10              | HQDM    | 25  | 20        | 19.62    | 19.62   | 19.71     |             |               |           |
| 10              | HQDM    | 50  | 0         | 19.70    | 19.64   | 19.67     |             |               |           |
| Frequency (MHz) |         |     |           | 1712.5   | 1720.5  | 1725.5    | 1732.5      |               |           |
| 5               | QPSK    | 1   | 0         | 20.81    | 20.83   | 20.78     |             |               |           |
| 5               | QPSK    | 1   | 27        | 20.82    | 20.83   | 20.83     |             | 21.9          | 0         |
| 5               | QPSK    | 1   | 24        | 20.76    | 20.70   | 20.80     |             |               |           |
| 5               | QPSK    | 12  | 0         | 20.71    | 20.72   | 20.72     |             |               |           |
| 5               | QPSK    | 12  | 0         | 20.71    | 20.72   | 20.72     |             | 21.9          | 0         |
| 5               | QPSK    | 25  | 0         | 20.67    | 20.78   | 20.65     |             |               |           |
| 5               | QPSK    | 25  | 0         | 20.67    | 20.78   | 20.65     |             |               |           |
| 5               | HQDM    | 1   | 12        | 20.67    | 20.62   | 20.73     |             | 21.9          | 0         |
| 5               | HQDM    | 1   | 24        | 20.67    | 20.67   | 20.67     |             |               |           |
| 5               | HQDM    | 1   | 24        | 20.67    | 20.67   | 20.72     |             |               |           |
| 5               | HQDM    | 12  | 7         | 20.73    | 20.70   | 20.77     |             |               |           |
| 5               | HQDM    | 12  | 13        | 20.71    | 20.76   | 20.74     |             |               |           |
| 5               | HQDM    | 12  | 13        | 20.71    | 20.76   | 20.74     |             |               |           |
| 5               | HQDM    | 12  | 0         | 20.77    | 20.70   | 20.73     |             |               |           |
| 5               | HQDM    | 12  | 0         | 20.77    | 20.70   | 20.62     |             |               |           |
| 5               | HQDM    | 12  | 0         | 20.78    | 20.70   | 20.62     |             |               |           |
| 5               | HQDM    | 12  | 7         | 20.68    | 20.72   | 20.78     |             | 21.9          | 0         |
| 5               | HQDM    | 12  | 7         | 20.68    | 20.72   | 20.78     |             |               |           |
| 5               | HQDM    | 25  | 0         | 20.74    | 20.62   | 20.67     |             |               |           |
| 5               | HQDM    | 25  | 0         | 20.74    | 20.62   | 20.67     |             |               |           |
| 5               | HQDM    | 12  | 12        | 19.75    | 19.61   | 19.61     |             | 20.9          | 1         |
| 5               | HQDM    | 12  | 12        | 19.75    | 19.61   | 19.61     |             |               |           |
| 5               | HQDM    | 1   | 24        | 19.73    | 19.86   | 19.72     |             |               |           |
| 5               | HQDM    | 1   | 24        | 19.73    | 19.86   | 19.72     |             |               |           |
| 5               | HQDM    | 12  | 7         | 19.72    | 19.72   | 19.72     |             | 20.9          | 1         |
| 5               | HQDM    | 12  | 7         | 19.72    | 19.72   | 19.72     |             |               |           |
| 5               | HQDM    | 12  | 7         | 19.76    | 19.69   | 19.65     |             |               |           |
| 5               | HQDM    | 12  | 13        | 19.63    | 19.71   | 19.70     |             |               |           |
| 5               | HQDM    | 25  | 0         | 19.68    | 19.68   | 19.68     |             | 20.9          | 1         |
| Channel         |         |     |           | 1999.5   | 1970.5  | 1959.5    | 1948.5      |               |           |
| Frequency (MHz) |         |     |           | 1711.5   | 1720.5  | 1725.5    | 1732.5      |               |           |
| 3               | QPSK    | 1   | 0         | 20.79    | 20.82   | 20.75     |             |               |           |
| 3               | QPSK    | 1   | 27        | 20.81    | 20.84   | 20.84     |             | 21.9          | 0         |
| 3               | QPSK    | 1   | 14        | 20.80    | 20.84   | 20.84     |             |               |           |
| 3               | QPSK    | 8   | 0         | 20.68    | 20.66   | 20.72     |             |               |           |
| 3               | QPSK    | 8   | 0         | 20.68    | 20.66   | 20.72     |             |               |           |
| 3               | QPSK    | 8   | 7         | 20.72    | 20.68   | 20.72     |             |               |           |
| 3               | QPSK    | 15  | 0         | 20.68    | 20.75   | 20.73     |             |               |           |
| 3               | QPSK    | 15  | 0         | 20.75    | 20.68   | 20.73     |             |               |           |
| 3               | HQDM    | 8   | 0         | 20.65    | 20.62   | 20.76     |             | 21.9          | 0         |
| 3               | HQDM    | 8   | 14        | 20.74    | 20.66   | 20.68     |             |               |           |
| 3               | HQDM    | 8   | 14        | 20.74    | 20.66   | 20.68     |             |               |           |
| 3               | HQDM    | 8   | 0         | 20.72    | 20.63   | 20.72     |             |               |           |
| 3               | HQDM    | 8   | 0         | 20.72    | 20.63   | 20.72     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.65    | 20.78   | 20.71     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.68    | 20.75   | 20.71     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.68    | 20.75   | 20.71     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.73    | 20.78   | 20.83     |             |               |           |
| 3               | HQDM    | 8   | 0         | 20.68    | 20.67   | 20.67     |             | 21.9          | 0         |
| 3               | HQDM    | 8   | 7         | 20.70    | 20.70   | 20.78     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.79    | 20.67   | 20.67     |             |               |           |
| 3               | HQDM    | 15  | 0         | 20.79    | 20.67   | 20.67     |             |               |           |
| 3               | HQDM    | 1   | 14        | 19.75    | 19.64   | 19.76     |             | 20.9          | 1         |
| 3               | HQDM    | 1   | 14        | 19.75    | 19.64   | 19.76     |             |               |           |
| 3               | HQDM    | 8   | 0         | 19.71    | 19.78   | 19.77     |             |               |           |
| 3               | HQDM    | 8   | 0         | 19.71    | 19.78   | 19.77     |             |               |           |
| 3               | HQDM    | 8   | 7         | 19.72    | 19.71   | 19.69     |             | 20.9          | 1         |
| 3               | HQDM    | 8   | 7         | 19.72    | 19.71   | 19.69     |             |               |           |
| Channel         |         |     |           | 1999.5   | 1970.5  | 1959.5    | 1948.5      |               |           |
| Frequency (MHz) |         |     |           | 1710.5   | 1720.5  | 1725.5    | 1732.5      |               |           |
| 1.4             | QPSK    | 1   | 0         | 20.77    | 20.77   | 20.71     |             |               |           |
| 1.4             | QPSK    | 1   | 0         | 20.76    | 20.76   | 20.68     |             |               |           |
| 1.4             | QPSK    | 1   | 5         | 20.67    | 20.70   | 20.75     |             | 21.9          | 0         |
| 1.4             | QPSK    | 1   | 5         | 20.67    | 20.70   | 20.75     |             |               |           |
| 1.4             | QPSK    | 3   | 0         | 20.81    | 20.80   | 20.76     |             |               |           |
| 1.4             | QPSK    | 3   | 0         | 20.81    | 20.79   | 20.73     |             |               |           |
| 1.4             | HQDM    | 1   | 0         | 20.57    | 20.71   | 20.61     |             | 21.9          | 0         |
| 1.4             | HQDM    | 1   | 0         | 20.68    | 20.75   | 20.72     |             |               |           |
| 1.4             | HQDM    | 3   | 0         | 20.65    | 20.63   | 20.68     |             |               |           |
| 1.4             | HQDM    | 3   | 0         | 20.78    | 20.64   | 20.71     |             | 21.9          | 0         |
| 1.4             | HQDM    | 3   | 0         | 20.68    | 20.64   | 20.62     |             |               |           |
| 1.4             | HQDM    | 6   | 0         | 20.65    | 20.77   | 20.68     |             | 21.9          | 0         |
| 1.4             | HQDM    | 6   | 0         | 20.74    | 20.71   | 20.65     |             |               |           |
| 1.4             | HQDM    | 6   | 0         | 20.66    | 20.67   | 20.71     |             |               |           |
| 1.4             | HQDM    | 6   | 0         | 20.71    | 20.72   | 20.78     |             | 21.9          | 0         |
| 1.4             | HQDM    | 6   | 0         | 20.68    | 20.75   | 20.72     |             |               |           |
| 1.4             | HQDM    | 6   | 0         | 20.80    | 20.72   | 20.68     |             |               |           |
| 1.4             | HQDM    | 3   | 0         | 20.61    | 20.62   | 20.79     |             | 21.9          | 0         |
| 1.4             | HQDM    | 3   | 0         | 20.61    | 20.62   | 20.79     |             |               |           |
| 1.4             | HQDM    | 6   | 0         | 19.64    | 19.78   | 19.77     |             | 20.9          | 1         |
| 1.4             | HQDM    | 6   | 0         | 19.76    | 19.76   | 19.65     |             |               |           |
| 1.4             | HQDM    | 3   | 0         | 19.70    | 19.69   | 19.70     |             |               |           |
| 1               |         |     |           |          |         |           |             |               |           |



| Band 4_Ant 1    |            |         |           |                     |                     |                     |                  |          |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|---------------------|------------------|----------|--|
| EN [MHz]        | Modulation | RF Size | RF Offset | Power Max Ch / Freq | Power Max Ch / Freq | Power Max Ch / Freq | Turn-up Time (s) | APR (dB) |  |
| Channel         |            |         |           |                     |                     |                     |                  |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                     |                  |          |  |
| 20              | QPSK       | 1       | 0         | 21.16               | 21.38               | 21.31               |                  |          |  |
| 20              | QPSK       | 1       | 0         | 21.16               | 21.37               | 21.31               |                  |          |  |
| 20              | QPSK       | 1       | 99        | 21.10               | 21.34               | 21.32               | 22.0             | 0        |  |
| 20              | QPSK       | 50      | 0         | 21.21               | 21.38               | 21.35               |                  |          |  |
| 20              | QPSK       | 50      | 0         | 21.13               | 21.38               | 21.35               |                  |          |  |
| 20              | QPSK       | 50      | 99        | 21.09               | 21.32               | 21.33               | 22.0             | 0        |  |
| 20              | 16QAM      | 1       | 0         | 21.16               | 21.37               | 21.31               |                  |          |  |
| 20              | 16QAM      | 1       | 49        | 21.11               | 21.31               | 21.38               | 22.0             | 0        |  |
| 20              | 16QAM      | 1       | 99        | 21.16               | 21.34               | 21.31               |                  |          |  |
| 20              | 16QAM      | 50      | 0         | 21.21               | 21.38               | 21.35               |                  |          |  |
| 20              | 16QAM      | 50      | 24        | 21.09               | 21.30               | 21.27               | 22.0             | 0        |  |
| 20              | 16QAM      | 50      | 50        | 21.16               | 21.38               | 21.38               |                  |          |  |
| 20              | 16QAM      | 100     | 0         | 21.16               | 21.37               | 21.32               |                  |          |  |
| 20              | 64QAM      | 1       | 0         | 21.22               | 21.36               | 21.36               | 22.0             | 0        |  |
| 20              | 64QAM      | 1       | 49        | 21.22               | 21.37               | 21.32               |                  |          |  |
| 20              | 64QAM      | 50      | 0         | 20.99               | 20.79               | 20.76               |                  |          |  |
| 20              | 64QAM      | 50      | 24        | 20.67               | 20.74               | 20.84               | 22.1             | 0.5      |  |
| 20              | 64QAM      | 50      | 50        | 20.76               | 20.84               | 20.86               |                  |          |  |
| 20              | 64QAM      | 100     | 0         | 20.76               | 20.78               | 20.76               |                  |          |  |
| 20              | 256QAM     | 1       | 0         | 18.79               | 18.86               | 18.83               | 20.1             | 2.5      |  |
| 20              | 256QAM     | 1       | 49        | 18.76               | 18.77               | 18.76               |                  |          |  |
| 20              | 256QAM     | 1       | 99        | 18.70               | 18.77               | 18.73               |                  |          |  |
| 20              | 256QAM     | 50      | 0         | 18.72               | 18.76               | 18.83               |                  |          |  |
| 20              | 256QAM     | 50      | 24        | 18.79               | 18.82               | 18.89               |                  |          |  |
| 20              | 256QAM     | 50      | 50        | 18.89               | 18.78               | 18.83               | 20.1             | 2.5      |  |
| 20              | 256QAM     | 100     | 0         | 18.86               | 18.78               | 18.78               |                  |          |  |
| Channel         |            |         |           |                     |                     |                     |                  |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                     |                  |          |  |
| 16              | QPSK       | 1       | 0         | 21.08               | 21.28               | 21.18               |                  |          |  |
| 16              | QPSK       | 1       | 0         | 21.08               | 21.28               | 21.18               |                  |          |  |
| 16              | QPSK       | 1       | 74        | 21.04               | 21.32               | 21.22               | 22.0             | 0        |  |
| 16              | QPSK       | 36      | 0         | 21.07               | 21.23               | 21.20               |                  |          |  |
| 16              | QPSK       | 36      | 0         | 21.07               | 21.23               | 21.20               |                  |          |  |
| 16              | QPSK       | 36      | 99        | 20.98               | 21.28               | 21.22               | 22.0             | 0        |  |
| 16              | QPSK       | 75      | 0         | 21.12               | 21.30               | 21.28               |                  |          |  |
| 16              | 16QAM      | 1       | 0         | 21.08               | 21.28               | 21.20               |                  |          |  |
| 16              | 16QAM      | 1       | 37        | 20.98               | 21.22               | 21.22               | 22.0             | 0        |  |
| 16              | 16QAM      | 1       | 74        | 21.08               | 21.32               | 21.28               |                  |          |  |
| 16              | 16QAM      | 36      | 0         | 21.12               | 21.28               | 21.28               |                  |          |  |
| 16              | 16QAM      | 36      | 20        | 20.97               | 21.25               | 21.22               | 22.0             | 0        |  |
| 16              | 16QAM      | 36      | 39        | 21.09               | 21.29               | 21.24               |                  |          |  |
| 16              | 16QAM      | 75      | 0         | 21.07               | 21.28               | 21.28               |                  |          |  |
| 16              | 64QAM      | 1       | 0         | 21.17               | 21.34               | 21.34               |                  |          |  |
| 16              | 64QAM      | 1       | 37        | 21.17               | 21.31               | 21.28               | 22.0             | 0        |  |
| 16              | 64QAM      | 1       | 74        | 21.16               | 21.34               | 21.31               |                  |          |  |
| 16              | 64QAM      | 36      | 0         | 20.85               | 20.72               | 20.70               |                  |          |  |
| 16              | 64QAM      | 36      | 20        | 20.54               | 20.82               | 20.76               | 22.1             | 0.5      |  |
| 16              | 64QAM      | 36      | 49        | 20.84               | 20.82               | 20.76               |                  |          |  |
| 16              | 64QAM      | 75      | 0         | 20.86               | 20.84               | 20.86               |                  |          |  |
| 16              | 256QAM     | 1       | 0         | 18.85               | 18.86               | 18.78               | 20.1             | 2.5      |  |
| 16              | 256QAM     | 1       | 49        | 18.86               | 18.78               | 18.78               |                  |          |  |
| 16              | 256QAM     | 1       | 99        | 18.82               | 18.72               | 18.71               |                  |          |  |
| 16              | 256QAM     | 50      | 0         | 18.87               | 18.86               | 18.89               |                  |          |  |
| 16              | 256QAM     | 50      | 24        | 18.89               | 18.78               | 18.77               |                  |          |  |
| 16              | 256QAM     | 50      | 39        | 18.81               | 18.89               | 18.72               | 20.1             | 2.5      |  |
| 16              | 256QAM     | 75      | 0         | 18.82               | 18.81               | 18.86               |                  |          |  |
| Channel         |            |         |           |                     |                     |                     |                  |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                     |                  |          |  |
| 16              | QPSK       | 1       | 0         | 21.10               | 21.23               | 21.20               |                  |          |  |
| 16              | QPSK       | 1       | 0         | 21.10               | 21.23               | 21.20               |                  |          |  |
| 16              | QPSK       | 1       | 25        | 21.02               | 21.36               | 21.28               | 22.0             | 0        |  |
| 16              | QPSK       | 25      | 0         | 21.17               | 21.29               | 21.22               |                  |          |  |
| 16              | QPSK       | 25      | 0         | 21.17               | 21.29               | 21.22               |                  |          |  |
| 16              | QPSK       | 25      | 25        | 21.02               | 21.29               | 21.18               | 22.0             | 0        |  |
| 16              | 16QAM      | 1       | 0         | 21.08               | 21.28               | 21.28               |                  |          |  |
| 16              | 16QAM      | 1       | 25        | 20.99               | 21.22               | 21.28               | 22.0             | 0        |  |
| 16              | 16QAM      | 1       | 49        | 21.13               | 21.09               | 21.19               |                  |          |  |
| 16              | 16QAM      | 25      | 0         | 21.15               | 21.15               | 21.20               |                  |          |  |
| 16              | 16QAM      | 25      | 12        | 20.93               | 21.25               | 21.17               | 22.0             | 0        |  |
| 16              | 16QAM      | 25      | 25        | 21.12               | 21.28               | 21.33               |                  |          |  |
| 16              | 16QAM      | 50      | 0         | 21.15               | 21.34               | 21.35               |                  |          |  |
| 16              | 64QAM      | 1       | 0         | 21.16               | 21.30               | 21.22               |                  |          |  |
| 16              | 64QAM      | 1       | 25        | 21.10               | 21.23               | 21.28               | 22.0             | 0        |  |
| 16              | 64QAM      | 1       | 49        | 21.14               | 21.32               | 21.22               |                  |          |  |
| 16              | 64QAM      | 25      | 0         | 20.87               | 20.85               | 20.84               |                  |          |  |
| 16              | 64QAM      | 25      | 12        | 20.55               | 20.70               | 20.83               | 22.1             | 0.5      |  |
| 16              | 64QAM      | 25      | 12        | 20.84               | 20.73               | 20.74               |                  |          |  |
| 16              | 64QAM      | 50      | 0         | 20.86               | 20.88               | 20.70               |                  |          |  |
| 16              | 256QAM     | 1       | 0         | 18.89               | 18.71               | 18.79               | 20.1             | 2.5      |  |
| 16              | 256QAM     | 1       | 49        | 18.86               | 18.73               | 18.78               |                  |          |  |
| 16              | 256QAM     | 25      | 0         | 18.89               | 18.86               | 18.72               |                  |          |  |
| 16              | 256QAM     | 25      | 12        | 18.86               | 18.89               | 18.86               |                  |          |  |
| 16              | 256QAM     | 25      | 25        | 18.81               | 18.88               | 18.88               | 20.1             | 2.5      |  |
| 16              | 256QAM     | 50      | 0         | 18.82               | 18.73               | 18.84               |                  |          |  |
| Channel         |            |         |           |                     |                     |                     |                  |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                     |                  |          |  |
| 5               | QPSK       | 1       | 0         | 21.09               | 21.34               | 21.17               |                  |          |  |
| 5               | QPSK       | 1       | 0         | 21.09               | 21.34               | 21.17               |                  |          |  |
| 5               | QPSK       | 1       | 24        | 20.95               | 21.23               | 21.28               | 22.0             | 0        |  |
| 5               | QPSK       | 12      | 0         | 21.17               | 21.31               | 21.27               |                  |          |  |
| 5               | QPSK       | 12      | 0         | 21.17               | 21.31               | 21.27               |                  |          |  |
| 5               | QPSK       | 12      | 13        | 20.99               | 21.21               | 21.28               | 22.0             | 0        |  |
| 5               | QPSK       | 25      | 0         | 21.15               | 21.34               | 21.30               |                  |          |  |
| 5               | 16QAM      | 1       | 0         | 21.02               | 21.34               | 21.25               |                  |          |  |
| 5               | 16QAM      | 1       | 12        | 21.01               | 21.21               | 21.29               | 22.0             | 0        |  |
| 5               | 16QAM      | 1       | 24        | 21.08               | 21.15               | 21.21               |                  |          |  |
| 5               | 16QAM      | 12      | 0         | 21.08               | 21.15               | 21.18               |                  |          |  |
| 5               | 16QAM      | 12      | 7         | 21.02               | 21.27               | 21.28               | 22.0             | 0        |  |
| 5               | 16QAM      | 12      | 13        | 21.03               | 21.16               | 21.22               |                  |          |  |
| 5               | 16QAM      | 1       | 0         | 21.14               | 21.32               | 21.15               |                  |          |  |
| 5               | 64QAM      | 1       | 0         | 21.15               | 21.32               | 21.31               |                  |          |  |
| 5               | 64QAM      | 1       | 12        | 21.15               | 21.27               | 21.18               | 22.0             | 0        |  |
| 5               | 64QAM      | 1       | 24        | 21.18               | 21.27               | 21.17               |                  |          |  |
| 5               | 64QAM      | 12      | 0         | 20.86               | 20.72               | 20.74               |                  |          |  |
| 5               | 64QAM      | 12      | 7         | 20.86               | 20.88               | 20.78               | 22.1             | 0.5      |  |
| 5               | 64QAM      | 12      | 13        | 20.86               | 20.73               | 20.79               |                  |          |  |
| 5               | 64QAM      | 25      | 0         | 20.83               | 20.82               | 20.71               |                  |          |  |
| 5               | 256QAM     | 1       | 0         | 18.81               | 18.70               | 18.79               | 20.1             | 2.5      |  |
| 5               | 256QAM     | 1       | 49        | 18.88               | 18.72               | 18.82               |                  |          |  |
| 5               | 256QAM     | 1       | 24        | 18.86               | 18.82               | 18.71               |                  |          |  |
| 5               | 256QAM     | 12      | 0         | 18.86               | 18.71               | 18.80               |                  |          |  |
| 5               | 256QAM     | 12      | 7         | 18.86               | 18.78               | 18.80               |                  |          |  |
| 5               | 256QAM     | 12      | 13        | 18.86               | 18.71               | 18.81               | 20.1             | 2.5      |  |
| 5               | 256QAM     | 25      | 0         | 18.82               | 18.85               | 18.78               |                  |          |  |
| Channel         |            |         |           |                     |                     |                     |                  |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                     |                  |          |  |
| 14              | QPSK       | 1       | 0         | 21.09               | 21.34               | 21.17               |                  |          |  |
| 14              | QPSK       | 1       | 0         | 21.09               | 21.34               | 21.17               |                  |          |  |
| 14              | QPSK       | 1       | 5         | 21.01               | 21.30               | 21.24               | 22.0             | 0        |  |
| 14              | QPSK       | 3       | 0         | 21.13               | 21.31               | 21.27               |                  |          |  |
| 14              | QPSK       | 3       | 0         | 21.03               | 21.34               | 21.14               |                  |          |  |
| 14              | QPSK       | 3       | 99        | 20.94               | 21.23               | 21.30               | 22.0             | 0        |  |
| 14              | 16QAM      | 1       | 0         | 21.08               | 21.36               | 21.29               |                  |          |  |
| 14              | 16QAM      | 1       | 3         | 21.02               | 21.31               | 21.30               |                  |          |  |
| 14              | 16QAM      | 3       | 0         | 21.07               | 21.22               | 21.25               | 22.0             | 0        |  |
| 14              | 16QAM      | 3       | 1         | 21.07               | 21.22               | 21.34               |                  |          |  |
| 14              | 16QAM      | 3       | 99        | 21.19               | 21.23               | 21.14               | 22.0             | 0        |  |
| 14              | 64QAM      | 1       | 0         | 21.15               | 21.16               | 21.15               |                  |          |  |
| 14              | 64QAM      | 1       | 3         | 21.06               | 21.14               | 21.07               | 22.0             | 0        |  |
| 14              | 64QAM      | 1       | 5         | 21.02               | 21.25               | 21.13               |                  |          |  |
| 14              | 64QAM      | 3       | 0         | 21.05               | 21.25               | 21.05               |                  |          |  |
| 14              | 64QAM      | 3       | 3         | 21.01               | 21.25               | 21.12               | 22.1             | 0.5      |  |
| 14              | 256QAM     | 1       | 0         | 18.83               | 18.86               | 18.87               |                  |          |  |
| 14              | 256QAM     | 1       | 3         | 18.80               | 18.74               | 18.78               |                  |          |  |
| 14              | 256QAM     | 1       | 5         | 18.82               | 18.73               | 18.81               | 20.1             | 2.5      |  |
| 14              | 256QAM     | 3       | 0         | 18.79               | 18.74               | 18.78               |                  |          |  |
| 14              | 256QAM     | 3       | 1         | 18.85               | 18.69               | 18.72               |                  |          |  |
| 14              | 256QAM     | 3       | 99        | 18.82               | 18.79               | 18.84               | 20.1             | 2.5      |  |



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| RF [MHz]        | Modulation | RF Band | RF Offset | Power Level Ch 1 / Freq | Power Level Ch 2 / Freq | Power Level Ch 3 / Freq | Tune-up (dB) | MFR (dB) |   |
|-----------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|--------------|----------|---|
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 20              | QPSK       | 1       | 0         | 21.08                   | 20.97                   | 20.94                   | 21.9         | 0        |   |
| 20              | QPSK       | 1       | 49        | 21.07                   | 21.11                   | 20.95                   |              |          |   |
| 20              | QPSK       | 1       | 99        | 20.91                   | 21.00                   | 20.84                   |              |          |   |
| 20              | QPSK       | 50      | 0         | 21.01                   | 21.05                   | 20.95                   | 21.9         | 0        |   |
| 20              | QPSK       | 50      | 24        | 20.98                   | 20.99                   | 20.94                   |              |          |   |
| 20              | QPSK       | 50      | 50        | 20.88                   | 21.01                   | 20.78                   |              |          |   |
| 20              | QPSK       | 100     | 0         | 20.92                   | 21.01                   | 20.94                   | 21.9         | 0        |   |
| 20              | 16QAM      | 1       | 0         | 20.94                   | 20.93                   | 20.86                   |              |          |   |
| 20              | 16QAM      | 1       | 49        | 20.99                   | 21.07                   | 20.94                   |              |          |   |
| 20              | 16QAM      | 1       | 99        | 20.86                   | 20.87                   | 20.72                   | 21.9         | 0        |   |
| 20              | 16QAM      | 50      | 0         | 21.00                   | 20.97                   | 20.90                   |              |          |   |
| 20              | 16QAM      | 50      | 24        | 20.92                   | 20.96                   | 20.90                   |              | 21.9     | 0 |
| 20              | 16QAM      | 50      | 50        | 20.72                   | 20.94                   | 20.72                   |              |          |   |
| 20              | 16QAM      | 100     | 0         | 20.87                   | 20.90                   | 20.87                   | 21.9         | 0        |   |
| 20              | 64QAM      | 1       | 0         | 21.05                   | 20.88                   | 20.85                   |              |          |   |
| 20              | 64QAM      | 1       | 49        | 21.10                   | 21.00                   | 20.92                   |              | 21.9     | 0 |
| 20              | 64QAM      | 1       | 99        | 20.77                   | 20.90                   | 20.75                   |              |          |   |
| 20              | 64QAM      | 50      | 0         | 20.88                   | 20.94                   | 20.91                   | 21.9         | 0        |   |
| 20              | 64QAM      | 50      | 24        | 20.89                   | 20.88                   | 20.77                   |              |          |   |
| 20              | 64QAM      | 50      | 50        | 20.73                   | 20.87                   | 20.64                   |              | 21.9     | 0 |
| 20              | 256QAM     | 1       | 0         | 20.81                   | 20.89                   | 20.81                   |              |          |   |
| 20              | 256QAM     | 1       | 0         | 20.23                   | 20.24                   | 20.20                   | 20.9         | 1        |   |
| 20              | 256QAM     | 1       | 49        | 20.18                   | 20.16                   | 20.10                   |              |          |   |
| 20              | 256QAM     | 1       | 99        | 20.17                   | 20.15                   | 20.07                   |              | 20.9     | 1 |
| 20              | 256QAM     | 50      | 0         | 20.19                   | 20.13                   | 20.06                   |              |          |   |
| 20              | 256QAM     | 50      | 24        | 20.21                   | 20.14                   | 20.06                   | 20.9         | 1        |   |
| 20              | 256QAM     | 50      | 50        | 20.15                   | 20.19                   | 20.14                   |              |          |   |
| 20              | 256QAM     | 100     | 0         | 20.04                   | 20.18                   | 20.07                   | 21.9         | 0        |   |
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 16              | QPSK       | 1       | 0         | 21.00                   | 20.88                   | 20.82                   | 21.9         | 0        |   |
| 16              | QPSK       | 1       | 28        | 21.07                   | 21.07                   | 20.94                   |              |          |   |
| 16              | QPSK       | 1       | 74        | 20.85                   | 20.88                   | 20.74                   |              | 21.9     | 0 |
| 16              | QPSK       | 36      | 0         | 20.98                   | 21.03                   | 20.92                   |              |          |   |
| 16              | QPSK       | 36      | 20        | 20.98                   | 20.88                   | 20.74                   | 21.9         | 0        |   |
| 16              | QPSK       | 36      | 59        | 20.75                   | 20.98                   | 20.65                   |              |          |   |
| 16              | QPSK       | 75      | 0         | 20.86                   | 20.90                   | 20.87                   |              | 21.9     | 0 |
| 16              | 16QAM      | 1       | 0         | 21.00                   | 20.87                   | 20.84                   |              |          |   |
| 16              | 16QAM      | 1       | 37        | 20.98                   | 21.01                   | 20.94                   |              | 21.9     | 0 |
| 16              | 16QAM      | 1       | 74        | 20.82                   | 20.87                   | 20.69                   |              |          |   |
| 16              | 16QAM      | 36      | 0         | 20.91                   | 20.90                   | 20.83                   | 21.9         | 0        |   |
| 16              | 16QAM      | 36      | 20        | 20.96                   | 20.97                   | 20.74                   |              |          |   |
| 16              | 16QAM      | 36      | 59        | 20.75                   | 20.88                   | 20.69                   |              | 21.9     | 0 |
| 16              | 16QAM      | 75      | 0         | 20.88                   | 20.90                   | 20.89                   |              |          |   |
| 16              | 64QAM      | 1       | 0         | 20.93                   | 20.99                   | 20.86                   | 21.9         | 0        |   |
| 16              | 64QAM      | 1       | 37        | 21.01                   | 20.94                   | 20.85                   |              |          |   |
| 16              | 64QAM      | 1       | 74        | 20.85                   | 20.90                   | 20.71                   |              | 21.9     | 0 |
| 16              | 64QAM      | 36      | 0         | 20.95                   | 21.02                   | 20.90                   |              |          |   |
| 16              | 64QAM      | 36      | 20        | 20.86                   | 20.88                   | 20.78                   | 21.9         | 0        |   |
| 16              | 64QAM      | 36      | 59        | 20.82                   | 20.84                   | 20.66                   |              |          |   |
| 16              | 64QAM      | 75      | 0         | 20.84                   | 20.91                   | 20.82                   |              | 20.9     | 1 |
| 16              | 256QAM     | 1       | 0         | 20.12                   | 20.21                   | 20.19                   |              |          |   |
| 16              | 256QAM     | 1       | 27        | 20.04                   | 20.15                   | 20.05                   | 20.9         | 1        |   |
| 16              | 256QAM     | 1       | 74        | 20.05                   | 20.10                   | 19.99                   |              |          |   |
| 16              | 256QAM     | 36      | 0         | 20.17                   | 20.08                   | 20.02                   | 20.9         | 1        |   |
| 16              | 256QAM     | 36      | 20        | 20.11                   | 19.99                   | 19.95                   |              |          |   |
| 16              | 256QAM     | 36      | 59        | 20.15                   | 20.15                   | 20.00                   |              | 21.9     | 0 |
| 16              | 256QAM     | 75      | 0         | 20.01                   | 20.13                   | 19.97                   |              |          |   |
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 16              | QPSK       | 1       | 0         | 20.97                   | 20.85                   | 20.85                   | 21.9         | 0        |   |
| 16              | QPSK       | 1       | 28        | 20.98                   | 21.05                   | 20.87                   |              |          |   |
| 16              | QPSK       | 1       | 49        | 20.87                   | 20.88                   | 20.69                   |              | 21.9     | 0 |
| 16              | QPSK       | 25      | 0         | 20.92                   | 20.98                   | 20.83                   |              |          |   |
| 16              | QPSK       | 25      | 7         | 20.86                   | 20.87                   | 20.76                   | 21.9         | 0        |   |
| 16              | QPSK       | 25      | 25        | 20.76                   | 20.91                   | 20.63                   |              |          |   |
| 16              | QPSK       | 50      | 0         | 20.87                   | 20.87                   | 20.82                   |              | 21.9     | 0 |
| 16              | 16QAM      | 1       | 0         | 20.84                   | 20.82                   | 20.83                   |              |          |   |
| 16              | 16QAM      | 1       | 25        | 21.00                   | 21.04                   | 20.93                   |              | 21.9     | 0 |
| 16              | 16QAM      | 1       | 49        | 20.78                   | 20.91                   | 20.81                   |              |          |   |
| 16              | 16QAM      | 15      | 0         | 20.81                   | 21.01                   | 20.81                   | 21.9         | 0        |   |
| 16              | 16QAM      | 15      | 12        | 20.98                   | 20.84                   | 20.72                   |              |          |   |
| 16              | 16QAM      | 15      | 25        | 20.79                   | 20.87                   | 20.68                   |              | 21.9     | 0 |
| 16              | 16QAM      | 25      | 0         | 20.80                   | 20.82                   | 20.80                   |              |          |   |
| 16              | 64QAM      | 1       | 0         | 21.03                   | 20.94                   | 20.86                   | 21.9         | 0        |   |
| 16              | 64QAM      | 1       | 25        | 21.06                   | 20.99                   | 20.93                   |              |          |   |
| 16              | 64QAM      | 1       | 49        | 20.82                   | 20.85                   | 20.74                   |              | 21.9     | 0 |
| 16              | 64QAM      | 25      | 0         | 20.89                   | 20.97                   | 20.87                   |              |          |   |
| 16              | 64QAM      | 25      | 12        | 20.98                   | 20.87                   | 20.71                   | 21.9         | 0        |   |
| 16              | 64QAM      | 25      | 25        | 20.78                   | 20.90                   | 20.68                   |              |          |   |
| 16              | 64QAM      | 50      | 0         | 20.81                   | 21.00                   | 20.85                   |              | 20.9     | 1 |
| 16              | 256QAM     | 1       | 0         | 20.02                   | 20.14                   | 20.14                   |              |          |   |
| 16              | 256QAM     | 1       | 25        | 20.12                   | 20.10                   | 19.99                   | 20.9         | 1        |   |
| 16              | 256QAM     | 1       | 49        | 20.16                   | 20.04                   | 20.03                   |              |          |   |
| 16              | 256QAM     | 25      | 0         | 20.15                   | 20.03                   | 19.95                   | 20.9         | 1        |   |
| 16              | 256QAM     | 25      | 12        | 20.10                   | 19.99                   | 19.97                   |              |          |   |
| 16              | 256QAM     | 25      | 25        | 20.10                   | 20.08                   | 20.06                   |              | 21.9     | 0 |
| 16              | 256QAM     | 50      | 0         | 20.03                   | 20.14                   | 19.98                   |              |          |   |
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 5               | QPSK       | 1       | 0         | 20.94                   | 20.82                   | 20.82                   | 21.9         | 0        |   |
| 5               | QPSK       | 1       | 8         | 20.98                   | 21.05                   | 20.87                   |              |          |   |
| 5               | QPSK       | 1       | 24        | 20.78                   | 20.89                   | 20.72                   |              | 21.9     | 0 |
| 5               | QPSK       | 12      | 0         | 21.00                   | 20.98                   | 20.90                   |              |          |   |
| 5               | QPSK       | 12      | 7         | 20.86                   | 20.87                   | 20.76                   | 21.9         | 0        |   |
| 5               | QPSK       | 12      | 13        | 20.76                   | 20.95                   | 20.74                   |              |          |   |
| 5               | QPSK       | 25      | 0         | 20.81                   | 20.90                   | 20.86                   |              | 21.9     | 0 |
| 5               | 16QAM      | 1       | 0         | 20.86                   | 20.87                   | 20.88                   |              |          |   |
| 5               | 16QAM      | 1       | 12        | 21.02                   | 20.99                   | 20.88                   |              | 21.9     | 0 |
| 5               | 16QAM      | 1       | 24        | 20.84                   | 20.98                   | 20.74                   |              |          |   |
| 5               | 16QAM      | 15      | 0         | 21.02                   | 20.94                   | 20.83                   | 21.9         | 0        |   |
| 5               | 16QAM      | 15      | 7         | 20.93                   | 20.89                   | 20.76                   |              |          |   |
| 5               | 16QAM      | 15      | 12        | 20.77                   | 20.94                   | 20.65                   |              | 21.9     | 0 |
| 5               | 16QAM      | 25      | 0         | 20.86                   | 20.93                   | 20.88                   |              |          |   |
| 5               | 64QAM      | 1       | 0         | 20.98                   | 20.93                   | 20.79                   | 21.9         | 0        |   |
| 5               | 64QAM      | 1       | 12        | 20.98                   | 20.95                   | 20.87                   |              |          |   |
| 5               | 64QAM      | 1       | 24        | 20.78                   | 20.87                   | 20.76                   |              | 21.9     | 0 |
| 5               | 64QAM      | 12      | 0         | 20.97                   | 20.97                   | 20.85                   |              |          |   |
| 5               | 64QAM      | 12      | 7         | 20.90                   | 20.87                   | 20.73                   | 21.9         | 0        |   |
| 5               | 64QAM      | 12      | 13        | 20.81                   | 20.97                   | 20.68                   |              |          |   |
| 5               | 64QAM      | 25      | 0         | 20.89                   | 20.90                   | 20.93                   |              | 20.9     | 1 |
| 5               | 256QAM     | 1       | 0         | 20.02                   | 20.21                   | 20.08                   |              |          |   |
| 5               | 256QAM     | 1       | 12        | 20.14                   | 20.13                   | 19.93                   | 20.9         | 1        |   |
| 5               | 256QAM     | 1       | 24        | 20.10                   | 20.13                   | 19.97                   |              |          |   |
| 5               | 256QAM     | 12      | 0         | 20.07                   | 20.05                   | 19.92                   |              | 20.9     | 1 |
| 5               | 256QAM     | 12      | 7         | 20.11                   | 19.98                   | 19.95                   |              |          |   |
| 5               | 256QAM     | 12      | 13        | 20.02                   | 20.13                   | 20.04                   |              | 21.9     | 0 |
| 5               | 256QAM     | 25      | 0         | 20.06                   | 20.14                   | 20.04                   |              |          |   |
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 3               | QPSK       | 1       | 0         | 20.93                   | 20.83                   | 20.89                   | 21.9         | 0        |   |
| 3               | QPSK       | 1       | 8         | 20.98                   | 21.05                   | 20.91                   |              |          |   |
| 3               | QPSK       | 1       | 14        | 20.84                   | 20.87                   | 20.81                   |              | 21.9     | 0 |
| 3               | QPSK       | 8       | 0         | 20.88                   | 20.93                   | 20.81                   |              |          |   |
| 3               | QPSK       | 8       | 7         | 20.86                   | 20.84                   | 20.71                   | 21.9         | 0        |   |
| 3               | QPSK       | 8       | 7         | 20.71                   | 20.94                   | 20.72                   |              |          |   |
| 3               | QPSK       | 15      | 0         | 20.91                   | 20.87                   | 20.83                   |              | 21.9     | 0 |
| 3               | 16QAM      | 1       | 0         | 21.02                   | 20.91                   | 20.83                   |              |          |   |
| 3               | 16QAM      | 1       | 8         | 20.99                   | 20.99                   | 20.89                   | 21.9         | 0        |   |
| 3               | 16QAM      | 1       | 14        | 20.82                   | 20.93                   | 20.81                   | 21.9         | 0        |   |
| 3               | 16QAM      | 8       | 0         | 20.86                   | 21.00                   | 20.76                   |              |          |   |
| 3               | 16QAM      | 8       | 7         | 20.68                   | 20.88                   | 20.67                   |              | 21.9     | 0 |
| 3               | 16QAM      | 15      | 0         | 20.93                   | 20.83                   | 20.82                   |              |          |   |
| 3               | 64QAM      | 1       | 0         | 20.89                   | 20.92                   | 20.89                   | 21.9         | 0        |   |
| 3               | 64QAM      | 1       | 14        | 20.77                   | 20.95                   | 20.82                   |              |          |   |
| 3               | 64QAM      | 8       | 7         | 20.71                   | 20.94                   | 20.77                   |              | 21.9     | 0 |
| 3               | 64QAM      | 15      | 0         | 20.86                   | 20.88                   | 20.90                   |              |          |   |
| 3               | 256QAM     | 1       | 0         | 20.02                   | 20.05                   | 20.02                   | 20.9         | 1        |   |
| 3               | 256QAM     | 1       | 8         | 20.15                   | 20.15                   | 20.00                   |              |          |   |
| 3               | 256QAM     | 1       | 14        | 20.08                   | 20.07                   | 19.92                   |              | 20.9     | 1 |
| 3               | 256QAM     | 8       | 0         | 20.15                   | 20.10                   | 19.93                   |              |          |   |
| 3               | 256QAM     | 8       | 7         | 20.03                   | 20.08                   | 20.03                   |              | 21.9     | 0 |
| 3               | 256QAM     | 15      | 0         | 20.02                   | 20.08                   | 20.04                   |              |          |   |
| Channel         |            |         |           |                         |                         |                         |              |          |   |
| Frequency (MHz) |            |         |           |                         |                         |                         |              |          |   |
| 14              | QPSK       | 1       | 0         | 21.05                   | 20.95                   | 20.85                   | 21.9         | 0        |   |
| 14              | QPSK       | 1       | 5         | 21.06                   | 20.97                   | 20.78                   |              |          |   |
| 14              | QPSK       | 1       | 3         | 20.94                   | 20.93                   | 20.80                   |              | 21.9     | 0 |
| 14              | QPSK       | 3       | 3         | 20.79                   | 20.85                   | 20.70                   |              |          |   |
| 14              | 16QAM      | 1       | 0         | 21.06                   | 20.95                   | 20.84                   | 21.9         | 0        |   |
| 14              | 16QAM      | 1       | 3         | 21.07                   | 20.98                   | 20.82                   |              |          |   |
| 14              | 16QAM      | 3       | 0         | 20.88                   | 21.02                   | 20.81                   |              | 21.9     | 0 |
| 14              | 16QAM      | 3       | 3         | 20.68                   | 20.89                   | 20.78                   |              |          |   |
| 14              | 64QAM      | 1       | 0         | 20.81                   | 20.89                   | 20.89                   | 21.9         | 0        |   |
| 14              | 64QAM      | 1       | 3         | 21.02                   | 21.05                   | 20.92                   |              |          |   |
| 14              | 64QAM      | 3       | 0         | 20.89                   | 20.92                   | 20.79                   |              | 21.9     | 0 |
| 14              | 64QAM      | 3       | 3         | 20.91                   | 20.92                   | 20.91                   |              |          |   |
| 14              | 64QAM      | 6       | 0         | 20.89                   | 20.89                   | 20.81                   | 21.9         | 0        |   |
| 14              | 64QAM      | 6       | 3         | 20.71                   | 20.92                   | 20.72                   |              |          |   |
| 14              | 64QAM      | 6       | 6         | 20.90                   | 20.86                   | 20.90                   |              | 21.9     | 0 |
| 14              | 256QAM     | 1       | 0         | 20.03                   | 20.11                   | 20.01                   |              |          |   |
| 14              | 256QAM     | 1       | 3         | 20.07                   | 20.08                   | 19.99                   | 20.9         | 1        |   |
| 14              | 256QAM     | 3       | 0         | 20.18                   | 20.12                   | 19.94                   |              |          |   |
| 14              | 256QAM     | 3       | 3         | 20.16                   | 20.09                   | 20.04                   |              | 21.9     | 0 |
| 14              | 256QAM     | 6       | 0         | 20.08                   | 20.12                   | 20.09                   |              |          |   |

| Band 48_Ant 4   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 18.85                 | 18.79                        | 18.79                         | 18.94                  | 20                  | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 19.02                 | 18.87                        | 19.03                         | 19.08                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 18.93                 | 18.81                        | 18.86                         | 18.92                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 18.93                 | 18.81                        | 18.97                         | 19.03                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 18.73                 | 18.74                        | 18.66                         | 18.79                  | 20                  | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 18.89                 | 18.79                        | 18.72                         | 18.81                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 18.78                 | 18.75                        | 18.73                         | 19.01                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 18.88                 | 18.76                        | 18.91                         | 19.05                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 18.87                 | 18.73                        | 18.80                         | 18.80                  | 20                  | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 18.73                 | 18.74                        | 18.67                         | 18.84                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 18.93                 | 18.79                        | 19.01                         | 18.98                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 18.81                 | 18.69                        | 18.73                         | 18.86                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 18.80                 | 18.69                        | 18.71                         | 18.88                  | 20                  | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 18.96                 | 18.73                        | 19.00                         | 18.98                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 18.92                 | 18.79                        | 18.84                         | 18.79                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 18.84                 | 18.68                        | 18.77                         | 18.93                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 18.99                 | 18.85                        | 19.02                         | 19.02                  | 20                  | 0        |  |  |
| 20              | 64QAM      | 50      | 0         | 18.80                 | 18.67                        | 18.85                         | 18.79                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 18.83                 | 18.76                        | 18.78                         | 18.87                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 18.94                 | 18.74                        | 19.00                         | 18.96                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 18.88                 | 18.78                        | 18.83                         | 18.80                  | 20                  | 0        |  |  |
| 20              | 256QAM     | 1       | 0         | 18.82                 | 18.69                        | 18.73                         | 18.92                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 18.93                 | 18.77                        | 18.97                         | 18.94                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 18.81                 | 18.77                        | 18.78                         | 18.83                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 18.70                 | 18.76                        | 18.67                         | 18.89                  | 20                  | 0        |  |  |
| 20              | 256QAM     | 50      | 24        | 18.72                 | 18.76                        | 18.67                         | 18.80                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 18.92                 | 18.78                        | 18.96                         | 18.87                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 18.83                 | 18.74                        | 18.82                         | 18.86                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56655                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 18.81                 | 18.78                        | 18.72                         | 18.81                  | 20                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 18.90                 | 18.75                        | 18.98                         | 19.02                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 18.79                 | 18.66                        | 18.81                         | 18.78                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 18.58                 | 18.63                        | 18.51                         | 18.74                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 18.78                 | 18.73                        | 18.68                         | 18.98                  | 20                  | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 18.80                 | 18.76                        | 18.82                         | 18.98                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 18.83                 | 18.84                        | 18.64                         | 18.94                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 18.78                 | 18.61                        | 18.87                         | 18.96                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 18.79                 | 18.59                        | 18.78                         | 18.75                  | 20                  | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 18.64                 | 18.70                        | 18.60                         | 18.81                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 18.92                 | 18.69                        | 18.92                         | 18.86                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 18.77                 | 18.55                        | 18.66                         | 18.78                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 18.70                 | 18.64                        | 18.69                         | 18.76                  | 20                  | 0        |  |  |
| 15              | 16QAM      | 75      | 0         | 18.81                 | 18.67                        | 18.90                         | 18.90                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 18.79                 | 18.66                        | 18.73                         | 18.75                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 18.78                 | 18.56                        | 18.76                         | 18.86                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 18.84                 | 18.82                        | 18.87                         | 18.89                  | 20                  | 0        |  |  |
| 15              | 64QAM      | 36      | 0         | 18.79                 | 18.66                        | 18.80                         | 18.65                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 18.77                 | 18.63                        | 18.77                         | 18.83                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 18.91                 | 18.60                        | 18.98                         | 18.94                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 18.79                 | 18.71                        | 18.81                         | 18.68                  | 20                  | 0        |  |  |
| 15              | 256QAM     | 1       | 0         | 18.69                 | 18.57                        | 18.66                         | 18.82                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 18.87                 | 18.73                        | 18.83                         | 18.82                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 18.76                 | 18.63                        | 18.77                         | 18.72                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 18.60                 | 18.61                        | 18.64                         | 18.85                  | 20                  | 0        |  |  |
| 15              | 256QAM     | 36      | 20        | 18.70                 | 18.75                        | 18.61                         | 18.71                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 18.85                 | 18.63                        | 18.88                         | 18.82                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 18.68                 | 18.62                        | 18.78                         | 18.85                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 18.77                 | 18.64                        | 18.67                         | 18.79                  | 20                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 18.98                 | 18.78                        | 18.91                         | 19.03                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 18.78                 | 18.78                        | 18.76                         | 18.88                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 18.67                 | 18.64                        | 18.52                         | 18.74                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 18.85                 | 18.72                        | 18.90                         | 18.95                  | 20                  | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 18.85                 | 18.65                        | 18.66                         | 18.72                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 18.72                 | 18.69                        | 18.62                         | 18.89                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 18.81                 | 18.73                        | 18.86                         | 19.00                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 18.85                 | 18.69                        | 18.73                         | 18.73                  | 20                  | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 18.63                 | 18.59                        | 18.66                         | 18.73                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 18.82                 | 18.70                        | 18.95                         | 18.90                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 18.66                 | 18.56                        | 18.65                         | 18.74                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 18.72                 | 18.60                        | 18.61                         | 18.77                  | 20                  | 0        |  |  |
| 10              | 16QAM      | 50      | 0         | 18.86                 | 18.65                        | 18.95                         | 18.96                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 18.85                 | 18.75                        | 18.80                         | 18.66                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 18.70                 | 18.59                        | 18.69                         | 18.79                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 18.96                 | 18.84                        | 18.98                         | 18.95                  | 20                  | 0        |  |  |
| 10              | 64QAM      | 25      | 0         | 18.72                 | 18.55                        | 18.73                         | 18.73                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 18.73                 | 18.65                        | 18.71                         | 18.85                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 18.92                 | 18.63                        | 18.98                         | 18.94                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 18.80                 | 18.65                        | 18.68                         | 18.75                  | 20                  | 0        |  |  |
| 10              | 256QAM     | 1       | 0         | 18.76                 | 18.59                        | 18.64                         | 18.77                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 18.80                 | 18.71                        | 18.88                         | 18.93                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 18.69                 | 18.62                        | 18.71                         | 18.79                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 18.66                 | 18.63                        | 18.54                         | 18.85                  | 20                  | 0        |  |  |
| 10              | 256QAM     | 25      | 12        | 18.59                 | 18.71                        | 18.61                         | 18.65                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 18.83                 | 18.76                        | 18.91                         | 18.95                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 18.68                 | 18.63                        | 18.80                         | 18.75                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 18.71                 | 18.66                        | 18.73                         | 18.90                  | 20                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 18.91                 | 18.84                        | 18.88                         | 18.98                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 18.79                 | 18.78                        | 18.81                         | 18.87                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 18.63                 | 18.67                        | 18.57                         | 18.75                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 18.85                 | 18.76                        | 18.96                         | 18.92                  | 20                  | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 18.74                 | 18.71                        | 18.68                         | 18.69                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 18.70                 | 18.70                        | 18.63                         | 18.97                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 18.75                 | 18.61                        | 18.84                         | 18.94                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 18.85                 | 18.61                        | 18.68                         | 18.74                  | 20                  | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 18.68                 | 18.62                        | 18.56                         | 18.74                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 18.86                 | 18.75                        | 18.96                         | 18.87                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 18.74                 | 18.57                        | 18.72                         | 18.82                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 18.72                 | 18.68                        | 18.57                         | 18.85                  | 20                  | 0        |  |  |
| 5               | 16QAM      | 25      | 0         | 18.86                 | 18.67                        | 18.89                         | 18.94                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 18.84                 | 18.64                        | 18.79                         | 18.65                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 18.72                 | 18.57                        | 18.76                         | 18.88                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 18.90                 | 18.80                        | 19.01                         | 19.00                  | 20                  | 0        |  |  |
| 5               | 64QAM      | 12      | 0         | 18.66                 | 18.60                        | 18.70                         | 18.67                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 18.72                 | 18.64                        | 18.67                         | 18.75                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 18.88                 | 18.73                        | 18.96                         | 18.93                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 18.85                 | 18.68                        | 18.82                         | 18.73                  | 20                  | 0        |  |  |
| 5               | 256QAM     | 1       | 0         | 18.69                 | 18.63                        | 18.71                         | 18.82                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 12        | 18.89                 | 18.63                        | 18.91                         | 18.91                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 18.67                 | 18.72                        | 18.72                         | 18.68                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 0         | 18.62                 | 18.73                        | 18.62                         | 18.83                  | 20                  | 0        |  |  |
| 5               | 256QAM     | 12      | 7         | 18.62                 | 18.65                        | 18.55                         | 18.74                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 13        | 18.82                 | 18.72                        | 18.85                         | 18.94                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 18.77                 | 18.60                        | 18.80                         | 18.83                  |                     |          |  |  |

| Band 48_Ant 8   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 19.99                 | 19.94                        | 19.92                         | 19.99                  | 21.7                | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 20.02                 | 20.13                        | 20.08                         | 20.20                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 20.01                 | 20.08                        | 20.01                         | 20.09                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 19.97                 | 20.07                        | 20.07                         | 20.10                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 19.92                 | 19.87                        | 19.81                         | 19.98                  | 21.7                | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 19.96                 | 20.03                        | 19.94                         | 20.06                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 19.96                 | 19.89                        | 19.89                         | 20.04                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 19.88                 | 19.98                        | 20.00                         | 20.11                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 19.86                 | 20.03                        | 19.87                         | 20.07                  | 21.7                | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 19.90                 | 19.91                        | 19.77                         | 19.88                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 19.91                 | 20.10                        | 20.02                         | 20.19                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 19.87                 | 20.03                        | 19.94                         | 19.99                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 19.84                 | 19.90                        | 19.82                         | 19.98                  | 21.7                | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 19.89                 | 20.08                        | 20.02                         | 20.18                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 19.85                 | 19.90                        | 19.83                         | 19.90                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 19.97                 | 20.11                        | 20.06                         | 20.11                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 19.93                 | 19.94                        | 19.99                         | 20.07                  | 21.2                | 0.5      |  |  |
| 20              | 64QAM      | 50      | 0         | 19.25                 | 19.32                        | 19.30                         | 19.40                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 19.46                 | 19.49                        | 19.41                         | 19.52                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 19.42                 | 19.35                        | 19.35                         | 19.45                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 19.39                 | 19.44                        | 19.45                         | 19.54                  | 19.2                | 2.5      |  |  |
| 20              | 256QAM     | 1       | 0         | 17.55                 | 17.46                        | 17.47                         | 17.58                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 17.47                 | 17.46                        | 17.46                         | 17.61                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 17.58                 | 17.53                        | 17.50                         | 17.67                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 17.39                 | 17.37                        | 17.34                         | 17.48                  | 19.2                | 2.5      |  |  |
| 20              | 256QAM     | 50      | 24        | 17.50                 | 17.50                        | 17.46                         | 17.59                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 17.38                 | 17.46                        | 17.39                         | 17.52                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 17.40                 | 17.37                        | 17.38                         | 17.50                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 19.96                 | 19.93                        | 19.82                         | 19.94                  | 21.7                | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 19.91                 | 20.03                        | 20.00                         | 20.05                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 19.89                 | 19.93                        | 19.88                         | 20.06                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 19.87                 | 20.03                        | 20.03                         | 19.98                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 19.91                 | 19.72                        | 19.79                         | 19.95                  | 21.7                | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 19.92                 | 19.98                        | 19.90                         | 20.04                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 19.92                 | 19.79                        | 19.79                         | 19.94                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 19.78                 | 19.85                        | 19.87                         | 19.96                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 19.80                 | 19.94                        | 19.77                         | 19.92                  | 21.7                | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 19.79                 | 19.88                        | 19.70                         | 19.74                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 19.84                 | 19.97                        | 20.00                         | 20.13                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 19.76                 | 19.95                        | 19.82                         | 19.89                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 19.73                 | 19.78                        | 19.81                         | 19.91                  | 21.7                | 0        |  |  |
| 15              | 16QAM      | 75      | 0         | 19.86                 | 19.98                        | 19.91                         | 20.11                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 19.72                 | 19.82                        | 19.78                         | 19.76                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 19.95                 | 20.02                        | 20.01                         | 19.97                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 19.90                 | 19.82                        | 19.88                         | 20.00                  | 21.2                | 0.5      |  |  |
| 15              | 64QAM      | 36      | 0         | 19.23                 | 19.21                        | 19.25                         | 19.20                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 19.39                 | 19.37                        | 19.37                         | 19.36                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 19.25                 | 19.26                        | 19.31                         | 19.30                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 19.40                 | 19.40                        | 19.36                         | 19.42                  | 19.2                | 2.5      |  |  |
| 15              | 256QAM     | 1       | 0         | 17.42                 | 17.45                        | 17.39                         | 17.44                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 17.44                 | 17.40                        | 17.37                         | 17.45                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 17.42                 | 17.48                        | 17.40                         | 17.48                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 17.33                 | 17.30                        | 17.33                         | 17.27                  | 19.2                | 2.5      |  |  |
| 15              | 256QAM     | 36      | 20        | 17.37                 | 17.42                        | 17.36                         | 17.38                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 17.34                 | 17.31                        | 17.32                         | 17.34                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 17.33                 | 17.36                        | 17.31                         | 17.29                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 19.97                 | 19.79                        | 19.82                         | 19.95                  | 21.7                | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 19.90                 | 19.99                        | 19.97                         | 20.15                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 19.95                 | 19.97                        | 19.87                         | 20.02                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 19.95                 | 20.04                        | 20.04                         | 20.06                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 19.89                 | 19.73                        | 19.75                         | 19.94                  | 21.7                | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 19.92                 | 19.90                        | 19.79                         | 19.95                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 19.92                 | 19.74                        | 19.88                         | 19.99                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 19.87                 | 19.86                        | 19.88                         | 20.00                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 19.73                 | 20.02                        | 19.77                         | 20.04                  | 21.7                | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 19.78                 | 19.90                        | 19.79                         | 19.85                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 19.87                 | 20.05                        | 19.98                         | 20.16                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 19.82                 | 19.91                        | 19.81                         | 19.85                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 19.82                 | 19.88                        | 19.79                         | 19.95                  | 21.7                | 0        |  |  |
| 10              | 16QAM      | 50      | 0         | 19.79                 | 20.04                        | 19.95                         | 20.11                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 19.83                 | 19.83                        | 19.79                         | 19.79                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 19.87                 | 20.00                        | 19.96                         | 19.97                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 19.86                 | 19.84                        | 19.97                         | 19.99                  | 21.2                | 0.5      |  |  |
| 10              | 64QAM      | 25      | 0         | 19.21                 | 19.23                        | 19.29                         | 19.25                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 19.39                 | 19.35                        | 19.37                         | 19.35                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 19.33                 | 19.26                        | 19.29                         | 19.30                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 19.44                 | 19.44                        | 19.41                         | 19.38                  | 19.2                | 2.5      |  |  |
| 10              | 256QAM     | 1       | 0         | 17.43                 | 17.46                        | 17.40                         | 17.41                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 17.37                 | 17.41                        | 17.39                         | 17.37                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 17.41                 | 17.42                        | 17.44                         | 17.40                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 17.30                 | 17.33                        | 17.28                         | 17.24                  | 19.2                | 2.5      |  |  |
| 10              | 256QAM     | 25      | 12        | 17.45                 | 17.42                        | 17.45                         | 17.45                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 17.31                 | 17.37                        | 17.37                         | 17.33                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 17.30                 | 17.32                        | 17.32                         | 17.36                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 19.92                 | 19.86                        | 19.81                         | 19.90                  | 21.7                | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 19.98                 | 19.98                        | 20.02                         | 20.14                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 19.93                 | 20.01                        | 19.94                         | 20.00                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 19.93                 | 19.99                        | 19.93                         | 20.09                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 19.78                 | 19.74                        | 19.77                         | 19.91                  | 21.7                | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 19.95                 | 19.95                        | 19.81                         | 19.93                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 19.91                 | 19.79                        | 19.74                         | 19.99                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 19.81                 | 19.93                        | 19.92                         | 19.97                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 19.76                 | 19.93                        | 19.81                         | 20.06                  | 21.7                | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 19.82                 | 19.80                        | 19.74                         | 19.76                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 19.89                 | 20.02                        | 19.98                         | 20.14                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 19.77                 | 19.92                        | 19.81                         | 19.93                  | 21.7                | 0        |  |  |
| 5               | 16QAM      | 12      | 13        | 19.83                 | 19.85                        | 19.70                         | 19.86                  |                     |          |  |  |
| 5               | 16QAM      | 25      | 0         | 19.74                 | 20.04                        | 19.99                         | 20.12                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 19.82                 | 19.76                        | 19.78                         | 19.81                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 19.91                 | 19.99                        | 19.93                         | 19.97                  | 21.7                | 0        |  |  |
| 5               | 64QAM      | 1       | 24        | 19.85                 | 19.89                        | 19.86                         | 20.03                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 0         | 19.27                 | 19.29                        | 19.26                         | 19.29                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 19.40                 | 19.39                        | 19.39                         | 19.33                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 19.32                 | 19.32                        | 19.27                         | 19.29                  | 21.2                | 0.5      |  |  |
| 5               | 64QAM      | 25      | 0         | 19.44                 | 19.35                        | 19.37                         | 19.39                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 0         | 17.41                 | 17.41                        | 17.38                         | 17.38                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 12        | 17.45                 | 17.44                        | 17.37                         | 17.37                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 17.42                 | 17.43                        | 17.45                         | 17.47                  | 19.2                | 2.5      |  |  |
| 5               | 256QAM     | 12      | 0         | 17.24                 | 17.27                        | 17.25                         | 17.27                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 7         | 17.44                 | 17.44                        | 17.37                         | 17.37                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 13        | 17.29                 | 17.37                        | 17.37                         | 17.33                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 17.28                 | 17.36                        | 17.37                         | 17.35                  |                     |          |  |  |

| n2_Ant 0        |            |         |           |                                                                   |                          |                        |                     |          |     |
|-----------------|------------|---------|-----------|-------------------------------------------------------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq.                                             | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel         |            |         |           |                                                                   |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 1860                                                              | 1880                     | 1900                   |                     |          |     |
| 20              | PI2 BPSK   | 1       | 1         | 18.81                                                             | 18.92                    | 18.78                  | 20.0                | 0.0      | 0.0 |
| 20              | PI2 BPSK   | 1       | 53        | 18.82                                                             | 18.90                    | 18.79                  |                     |          |     |
| 20              | PI2 BPSK   | 1       | 104       | 18.80                                                             | 18.89                    | 18.78                  |                     |          |     |
| 20              | PI2 BPSK   | 50      | 0         | 18.91                                                             | 18.92                    | 18.75                  |                     |          |     |
| 20              | PI2 BPSK   | 50      | 28        | 18.83                                                             | 19.03                    | 18.83                  | 20.0                | 0.0      | 0.0 |
| 20              | PI2 BPSK   | 50      | 56        | 18.81                                                             | 18.99                    | 18.83                  | 20.0                | 0.0      | 0.0 |
| 20              | PI2 BPSK   | 100     | 0         | 18.90                                                             | 19.01                    | 18.83                  | 20.0                | 0.0      | 0.0 |
| Frequency (MHz) |            |         |           | 18.92 <th>19.04</th> <th>18.99</th> <th></th> <th></th> <th></th> | 19.04                    | 18.99                  |                     |          |     |
| 20              | QPSK       | 1       | 1         | 18.81                                                             | 18.99                    | 18.81                  | 20.0                | 0.0      | 0.0 |
| 20              | QPSK       | 1       | 53        | 18.78                                                             | 18.99                    | 18.78                  |                     |          |     |
| 20              | QPSK       | 1       | 104       | 18.78                                                             | 19.03                    | 18.86                  |                     |          |     |
| 20              | QPSK       | 50      | 0         | 18.90                                                             | 19.01                    | 18.85                  |                     |          |     |
| 20              | QPSK       | 50      | 28        | 18.85                                                             | 19.01                    | 18.86                  | 20.0                | 0.0      | 0.0 |
| 20              | QPSK       | 50      | 56        | 18.83                                                             | 18.90                    | 18.81                  | 20.0                | 0.0      | 0.0 |
| 20              | QPSK       | 100     | 0         | 18.78                                                             | 18.92                    | 18.83                  | 20.0                | 0.0      | 0.0 |
| 20              | 16QAM      | 1       | 1         | 18.81                                                             | 18.96                    | 18.84                  | 20.0                | 0.0      | 0.0 |
| 20              | 64QAM      | 1       | 1         | 18.81                                                             | 18.96                    | 18.80                  | 20.0                | 0.0      | 0.0 |
| 20              | 256QAM     | 1       | 1         | 18.78                                                             | 19.00                    | 18.76                  | 20.0                | 0.0      | 0.0 |
| Channel         |            |         |           | 371500                                                            | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 1887.5                                                            | 1880                     | 1902.5                 |                     |          |     |
| 15              | QPSK       | 1       | 1         | 18.78                                                             | 18.99                    | 18.86                  | 20.0                | 0.0      | 0.0 |
| Channel         |            |         |           | 371000                                                            | 376000                   | 381000                 |                     |          |     |
| Frequency (MHz) |            |         |           | 1885                                                              | 1880                     | 1905                   |                     |          |     |
| 10              | QPSK       | 1       | 1         | 18.87                                                             | 18.87                    | 18.88                  | 20.0                | 0.0      | 0.0 |
| Channel         |            |         |           | 372000                                                            | 376000                   | 381500                 |                     |          |     |
| Frequency (MHz) |            |         |           | 1882.5                                                            | 1880                     | 1907.5                 |                     |          |     |
| 5               | QPSK       | 1       | 1         | 18.91                                                             | 18.96                    | 18.76                  | 20.0                | 0.0      | 0.0 |
| Channel         |            |         |           | 372500                                                            | 376000                   | 382000                 |                     |          |     |
| Frequency (MHz) |            |         |           | 1887.5                                                            | 1880                     | 1902.5                 |                     |          |     |

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   | 22.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 1         | 20.72                 | 20.94                    | 20.83                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 20.72                 | 20.89                    | 20.78                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 20.76                 | 20.85                    | 20.83                  |                     |          |  |
| Frequency (MHz) |            |         |           | 20.66                 | 20.82                    | 20.76                  | 22.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 28        | 20.73                 | 20.87                    | 20.85                  | 22.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 20.67                 | 20.85                    | 20.85                  | 22.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 20.72                 | 20.93                    | 20.84                  | 22.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 20.81                 | 20.95                    | 20.91                  | 22.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 20.81                 | 20.95                    | 20.91                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 20.75                 | 20.81                    | 20.84                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 20.69                 | 20.82                    | 20.86                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 20.76                 | 20.89                    | 20.80                  | 22.0                | 0.0      |  |
| 20              | QPSK       | 50      | 28        | 20.83                 | 20.94                    | 20.87                  | 22.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 20.68                 | 20.88                    | 20.81                  | 22.0                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 20.68                 | 20.91                    | 20.77                  | 22.0                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 20.72                 | 20.86                    | 20.76                  | 22.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.74                 | 20.81                    | 20.85                  | 22.0                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 19.37                 | 19.42                    | 19.27                  | 20.5                | 1.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1880                     | 1902.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 20.80                 | 20.89                    | 20.90                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.80                 | 20.89                    | 20.90                  |                     |          |  |
| Frequency (MHz) |            |         |           | 1885                  | 1880                     | 1905                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 20.72                 | 20.90                    | 20.87                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.72                 | 20.90                    | 20.87                  |                     |          |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1880                     | 1907.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 20.70                 | 20.94                    | 20.90                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 20.70                 | 20.94                    | 20.90                  |                     |          |  |

| n25_Ant 0       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 1870                 | 1882.5                  | 1895                  | 20.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 1         | 19.11                | 19.22                   | 19.14                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 19.09                | 19.25                   | 19.12                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 19.14                | 19.24                   | 19.09                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 19.05                | 19.15                   | 19.09                 | 20.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 19.12                | 19.14                   | 19.16                 | 20.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 19.14                | 19.20                   | 19.20                 | 20.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 19.13                | 19.18                   | 19.12                 | 20.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 19.16                | 19.27                   | 19.22                 | 20.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 19.07                | 19.20                   | 19.08                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 19.11                | 19.18                   | 19.11                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 19.16                | 19.17                   | 19.17                 |                     |          |  |
| 40              | QPSK       | 108     | 54        | 19.17                | 19.22                   | 19.18                 | 20.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 19.07                | 19.15                   | 19.15                 | 20.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 19.13                | 19.20                   | 19.18                 | 20.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 19.13                | 19.14                   | 19.15                 | 20.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 19.10                | 19.28                   | 19.16                 | 20.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 19.07                | 19.20                   | 19.07                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 373500               | 376500                  | 379500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5               | 1882.5                  | 1897.5                |                     |          |  |
| 35              | QPSK       | 1       | 1         | 19.03                | 19.19                   | 19.14                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 373000               | 376000                  | 380000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1895                 | 1882.5                  | 1900                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 19.10                | 19.14                   | 19.20                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 372500               | 376500                  | 380500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5               | 1882.5                  | 1902.5                |                     |          |  |
| 25              | QPSK       | 1       | 1         | 19.10                | 19.19                   | 19.18                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 372000               | 376500                  | 381000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1890                 | 1882.5                  | 1905                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 19.15                | 19.16                   | 19.10                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 371500               | 376500                  | 381500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5               | 1882.5                  | 1907.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 19.13                | 19.17                   | 19.15                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 371000               | 376500                  | 382000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                 | 1882.5                  | 1910                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.10                | 19.17                   | 19.15                 | 20.0                | 0.0      |  |
| Channel         |            |         |           | 370500               | 376500                  | 382500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5               | 1882.5                  | 1912.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 19.12                | 19.25                   | 19.13                 | 20.0                | 0.0      |  |



| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 21.05                 | 21.24                    | 21.10                  | 22.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 21.03                 | 21.28                    | 20.97                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 21.05                 | 21.29                    | 21.02                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 20.98                 | 21.18                    | 21.05                  | 22.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 20.97                 | 21.18                    | 21.07                  | 22.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 21.05                 | 21.19                    | 21.04                  | 22.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 21.11                 | 21.16                    | 20.97                  | 22.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 21.11                 | 21.32                    | 21.11                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 21.02                 | 21.21                    | 21.10                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 21.03                 | 21.21                    | 21.08                  | 22.0                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 21.03                 | 21.28                    | 21.01                  | 22.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 21.05                 | 21.30                    | 21.08                  | 22.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 21.06                 | 21.29                    | 20.98                  | 22.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 21.10                 | 21.25                    | 21.08                  | 22.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 21.07                 | 21.31                    | 21.05                  |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 20.92                 | 20.94                    | 20.89                  |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 19.88                 | 19.93                    | 19.86                  | 19.5                | 2.5      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 35              | QPSK       | 1       | 1         | 20.95                 | 21.31                    | 21.06                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 21.00                 | 21.23                    | 21.01                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 25              | QPSK       | 1       | 1         | 21.04                 | 21.20                    | 21.01                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.97                 | 21.31                    | 21.01                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 21.02                 | 21.23                    | 21.09                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 21.09                 | 21.23                    | 21.09                  | 22.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 1         | 21.06                 | 21.28                    | 20.99                  | 22.0                | 0.0      |  |

| n66_Ant 0       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 20.32                | 20.42                   | 20.32                 | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 20.32                | 20.53                   | 20.39                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 20.30                | 20.49                   | 20.27                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 20.31                | 20.47                   | 20.28                 | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 20.40                | 20.43                   | 20.25                 | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 20.30                | 20.42                   | 20.33                 | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 20.37                | 20.49                   | 20.37                 | 21.5                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 20.41                | 20.58                   | 20.40                 |                     |          |  |
| 40              | QPSK       | 1       | 108       | 20.31                | 20.52                   | 20.39                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 20.30                | 20.50                   | 20.32                 | 21.5                | 0.0      |  |
| 40              | QPSK       | 108     | 0         | 20.30                | 20.51                   | 20.29                 | 21.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 20.36                | 20.52                   | 20.35                 | 21.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 20.27                | 20.41                   | 20.25                 | 21.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 20.28                | 20.47                   | 20.32                 | 21.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 20.36                | 20.48                   | 20.25                 |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 20.27                | 20.50                   | 20.28                 |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 20.38                | 20.41                   | 20.29                 | 21.5                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 35              | QPSK       | 1       | 1         | 20.38                | 20.42                   | 20.39                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 30              | QPSK       | 1       | 1         | 20.38                | 20.42                   | 20.39                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 25              | QPSK       | 1       | 1         | 20.40                | 20.44                   | 20.38                 | 21.5                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.38                | 20.51                   | 20.32                 | 21.5                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.36                | 20.51                   | 20.34                 | 21.5                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.37                | 20.52                   | 20.33                 | 21.5                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 5               | QPSK       | 1       | 1         | 20.26                | 20.42                   | 20.36                 | 21.5                | 0.0      |  |

| n66_Ant 1       |            |         |           |                         |                            |                          |                     |          |  |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq. | Power Middle<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34600                      | 35000                    |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 19.73                   | 19.87                      | 19.90                    |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 19.76                   | 19.86                      | 19.76                    | 21.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 214       | 19.80                   | 19.91                      | 19.81                    |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 19.87                   | 19.93                      | 19.83                    | 21.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 19.70                   | 19.92                      | 19.79                    | 21.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 19.78                   | 19.94                      | 19.78                    | 21.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 19.78                   | 19.92                      | 19.87                    |                     |          |  |
| 40              | QPSK       | 1       | 1         | 19.81                   | 19.97                      | 19.91                    |                     |          |  |
| 40              | QPSK       | 1       | 108       | 19.87                   | 19.94                      | 19.78                    | 21.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 19.78                   | 19.91                      | 19.84                    |                     |          |  |
| 40              | QPSK       | 108     | 0         | 19.86                   | 19.97                      | 19.85                    | 21.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 19.77                   | 19.91                      | 19.88                    | 21.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 19.74                   | 19.82                      | 19.80                    | 21.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 19.87                   | 19.85                      | 19.75                    |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 19.87                   | 19.90                      | 19.80                    | 21.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 19.78                   | 19.90                      | 19.88                    | 21.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 19.72                   | 19.88                      | 19.88                    | 21.0                | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 35              | QPSK       | 1       | 1         | 17.25                   | 17.45                      | 17.25                    | Tune-up limit (dBm) | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 17.25                   | 17.45                      | 17.45                    | Tune-up limit (dBm) | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 19.69                   | 19.89                      | 19.85                    | 21.0                | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 17.22                   | 17.55                      | 17.67.5                  | Tune-up limit (dBm) | 0.0      |  |
| 25              | QPSK       | 1       | 1         | 19.71                   | 19.84                      | 19.86                    | 21.0                | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34400                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 17.45                   | 17.45                      | 17.45                    | Tune-up limit (dBm) | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 19.78                   | 19.85                      | 19.78                    | 21.0                | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 17.17.5                 | 17.45                      | 17.22.5                  | Tune-up limit (dBm) | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 17.15                   | 17.45                      | 17.75                    | Tune-up limit (dBm) | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 19.68                   | 19.96                      | 19.80                    | 21.0                | 0.0      |  |
| Channel         |            |         |           |                         |                            |                          |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                   | 34900                      | 35000                    |                     | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 17.12.5                 | 17.45                      | 17.77.5                  | Tune-up limit (dBm) | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 19.75                   | 19.93                      | 19.89                    | 21.0                | 0.0      |  |

| FCC_n41_Ant 10  |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MFR<br>(dB) |  |
| Channel         |            |         |           | 506202                      | 518598                         | 526000                       |                        |             |  |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100             | PI2 BPSK   | 1       | 1         | 22.53                       | 22.69                          | 22.52                        | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 1       | 137       | 22.61                       | 22.76                          | 22.65                        |                        |             |  |
| 100             | PI2 BPSK   | 1       | 271       | 22.67                       | 22.77                          | 22.62                        | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 135     | 0         | 22.61                       | 22.75                          | 22.58                        |                        |             |  |
| 100             | PI2 BPSK   | 135     | 69        | 22.59                       | 22.82                          | 22.58                        | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 135     | 138       | 22.55                       | 22.70                          | 22.64                        | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 270     | 0         | 22.64                       | 22.80                          | 22.62                        |                        |             |  |
| 100             | QPSK       | 1       | 1         | 22.63                       | 22.63                          | 22.62                        | 24.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 137       | 22.60                       | 22.72                          | 22.57                        |                        |             |  |
| 100             | QPSK       | 1       | 271       | 22.64                       | 22.75                          | 22.64                        | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 0         | 22.55                       | 22.70                          | 22.57                        |                        |             |  |
| 100             | QPSK       | 135     | 69        | 22.60                       | 22.78                          | 22.60                        | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 138       | 22.60                       | 22.77                          | 22.55                        |                        |             |  |
| 100             | QPSK       | 270     | 0         | 22.57                       | 22.75                          | 22.61                        | 24.0                   | 0.0         |  |
| 100             | 16QAM      | 1       | 1         | 22.60                       | 22.75                          | 22.56                        | 24.0                   | 0.0         |  |
| 100             | 64QAM      | 1       | 1         | 22.43                       | 22.51                          | 22.34                        | 23.5                   | 0.5         |  |
| 100             | 256QAM     | 1       | 1         | 21.18                       | 21.28                          | 21.19                        | 22.5                   | 1.5         |  |
| Channel         |            |         |           | 506200                      | 518598                         | 526096                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2547                        | 2592.99                        | 2544.98                      |                        |             |  |
| 90              | QPSK       | 1       | 1         | 22.57                       | 22.72                          | 22.56                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 507204                      | 518598                         | 526996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2549.99                      |                        |             |  |
| 80              | QPSK       | 1       | 1         | 22.60                       | 22.72                          | 22.63                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 507202                      | 518598                         | 527000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2565                         |                        |             |  |
| 70              | QPSK       | 1       | 1         | 22.53                       | 22.78                          | 22.60                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 505200                      | 518598                         | 531996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2524                        | 2592.99                        | 2568.99                      |                        |             |  |
| 60              | QPSK       | 1       | 1         | 22.55                       | 22.81                          | 22.62                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 504204                      | 518598                         | 532996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2564.99                      |                        |             |  |
| 50              | QPSK       | 1       | 1         | 22.59                       | 22.70                          | 22.52                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2516.01                     | 2592.99                        | 2570                         |                        |             |  |
| 40              | QPSK       | 1       | 1         | 22.58                       | 22.69                          | 22.62                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502200                      | 518598                         | 535996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2574.98                      |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.65                       | 22.68                          | 22.56                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501204                      | 518598                         | 535996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2501.02                     | 2592.99                        | 2570.99                      |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.61                       | 22.74                          | 22.65                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2562.48                      |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.58                       | 22.72                          | 22.60                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2565                         |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.66                       | 22.70                          | 22.53                        | 24.0                   | 0.0         |  |

| FCC_n41 HPUE_Ant 10 |            |         |           |                             |                                |                              |                        |             |  |
|---------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MFR<br>(dB) |  |
| Channel             |            |         |           | 506202                      | 518598                         | 526000                       |                        |             |  |
| Frequency (MHz)     |            |         |           | 2546.01                     | 2592.99                        | 2550                         |                        |             |  |
| 100                 | PI2 BPSK   | 1       | 1         | 24.57                       | 24.70                          | 24.44                        | 26.0                   | 0.0         |  |
| 100                 | PI2 BPSK   | 1       | 137       | 24.59                       | 24.58                          | 24.54                        |                        |             |  |
| 100                 | PI2 BPSK   | 1       | 271       | 24.64                       | 24.67                          | 24.49                        | 25.5                   | 0.5         |  |
| 100                 | PI2 BPSK   | 135     | 0         | 24.13                       | 24.25                          | 24.14                        |                        |             |  |
| 100                 | PI2 BPSK   | 135     | 69        | 24.56                       | 24.66                          | 24.50                        | 26.0                   | 0.0         |  |
| 100                 | PI2 BPSK   | 135     | 138       | 24.11                       | 24.25                          | 24.06                        | 25.5                   | 0.5         |  |
| 100                 | PI2 BPSK   | 270     | 0         | 24.24                       | 24.28                          | 24.06                        |                        |             |  |
| 100                 | QPSK       | 1       | 1         | 24.71                       | 24.78                          | 24.02                        | 26.0                   | 0.0         |  |
| 100                 | QPSK       | 1       | 137       | 24.64                       | 24.71                          | 24.01                        |                        |             |  |
| 100                 | QPSK       | 1       | 271       | 24.08                       | 24.66                          | 24.56                        | 26.0                   | 0.0         |  |
| 100                 | QPSK       | 135     | 0         | 23.87                       | 23.95                          | 23.79                        |                        |             |  |
| 100                 | QPSK       | 135     | 69        | 24.05                       | 24.73                          | 24.30                        | 25.0                   | 1.0         |  |
| 100                 | QPSK       | 135     | 138       | 24.06                       | 24.15                          | 23.99                        |                        |             |  |
| 100                 | QPSK       | 270     | 0         | 23.68                       | 23.83                          | 23.75                        | 25.0                   | 1.0         |  |
| 100                 | 16QAM      | 1       | 1         | 23.73                       | 23.83                          | 23.62                        | 25.0                   | 1.0         |  |
| 100                 | 64QAM      | 1       | 1         | 22.43                       | 22.51                          | 22.34                        | 23.5                   | 2.5         |  |
| 100                 | 256QAM     | 1       | 1         | 21.18                       | 21.28                          | 21.19                        | 22.5                   | 3.5         |  |
| Channel             |            |         |           | 505200                      | 518598                         | 526996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2541                        | 2592.99                        | 2544.98                      |                        |             |  |
| 90                  | QPSK       | 1       | 1         | 24.59                       | 24.59                          | 24.49                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 507204                      | 518598                         | 526996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2536.02                     | 2592.99                        | 2549.99                      |                        |             |  |
| 80                  | QPSK       | 1       | 1         | 24.55                       | 24.70                          | 24.52                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 505202                      | 518598                         | 531000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2531.01                     | 2592.99                        | 2565                         |                        |             |  |
| 70                  | QPSK       | 1       | 1         | 24.62                       | 24.58                          | 24.50                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 505200                      | 518598                         | 531996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2524                        | 2592.99                        | 2568.99                      |                        |             |  |
| 60                  | QPSK       | 1       | 1         | 24.60                       | 24.62                          | 24.44                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 504204                      | 518598                         | 532996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2521.02                     | 2592.99                        | 2564.99                      |                        |             |  |
| 50                  | QPSK       | 1       | 1         | 24.50                       | 24.62                          | 24.44                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2516.01                     | 2592.99                        | 2570                         |                        |             |  |
| 40                  | QPSK       | 1       | 1         | 24.57                       | 24.70                          | 24.50                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 502200                      | 518598                         | 535996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2511                        | 2592.99                        | 2574.98                      |                        |             |  |
| 30                  | QPSK       | 1       | 1         | 24.54                       | 24.65                          | 24.44                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 501204                      | 518598                         | 535996                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2501.02                     | 2592.99                        | 2570.99                      |                        |             |  |
| 20                  | QPSK       | 1       | 1         | 24.51                       | 24.62                          | 24.42                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2503.5                      | 2592.99                        | 2562.48                      |                        |             |  |
| 15                  | QPSK       | 1       | 1         | 24.60                       | 24.64                          | 24.54                        | 26.0                   | 0.0         |  |
| Channel             |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit (dBm)    | MFR (dB)    |  |
| Frequency (MHz)     |            |         |           | 2501.01                     | 2592.99                        | 2565                         |                        |             |  |
| 10                  | QPSK       | 1       | 1         | 24.51                       | 24.58                          | 24.55                        | 26.0                   | 0.0         |  |



| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 16.94                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 16.97                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 17.06                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 17.07                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 17.09                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 17.07                 |                          |                        | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 17.11                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 17.19                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 17.11                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       | 17.13                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 17.01                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 17.13                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       | 17.05                 |                          |                        | 18.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 17.09                 |                          |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.99                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 16.94                 | 17.06                    | 17.08                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 16.99                 | 17.03                    | 16.94                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 17.02                 | 17.04                    | 17.01                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 16.94                 | 17.05                    | 17.00                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 17.06                 | 17.03                    | 17.07                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 17.02                 | 17.02                    | 16.95                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 17.05                 | 17.05                    | 16.94                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 17.05                 | 17.01                    | 16.96                  | 18.5                | 0.0      |  |
| Channel           |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.97                  | 18.5                | 0.0      |  |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 17.35                 | 17.36                    | 17.41                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 17.25                 | 17.39                    | 17.38                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 17.30                 | 17.33                    | 17.18                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 17.28                 | 17.34                    | 17.08                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 17.26                 | 17.32                    | 17.08                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 17.34                 | 17.22                    | 17.11                  | 18.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 17.23                 | 17.34                    | 17.11                  |                     |          |  |
| 100               | QPSK       | 1       | 1         | 17.38                 | 17.43                    | 17.40                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 17.30                 | 17.31                    | 17.21                  | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 17.24                 | 17.28                    | 17.17                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 17.27                 | 17.28                    | 17.17                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 17.30                 | 17.33                    | 17.21                  | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 17.23                 | 17.31                    | 17.19                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 17.25                 | 17.25                    | 17.15                  |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 17.33                 | 17.25                    | 17.19                  | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 17.31                 | 17.26                    | 17.07                  | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 17.31                 | 17.28                    | 17.16                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 646666                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3745.02               | 3840                     | 3934.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 17.18                 | 17.21                    | 17.12                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 17.25                 | 17.18                    | 17.10                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 17.15                 | 17.21                    | 17.06                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 645666                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3730.02               | 3840                     | 3944.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 17.18                 | 17.20                    | 17.11                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 645334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 17.23                 | 17.31                    | 17.17                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 645000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 17.29                 | 17.19                    | 17.08                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 644666                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 17.26                 | 17.32                    | 17.17                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 644334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 17.21                 | 17.30                    | 17.20                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 644000                | 656000                   | 664932                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 17.21                 | 17.23                    | 17.10                  | 18.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 643666                | 656000                   | 665166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 17.28                 | 17.30                    | 17.19                  | 18.5                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 6333.92               |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 16.94                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 16.97                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 17.06                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 17.07                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 17.09                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 17.07                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 17.11                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 17.19                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 17.11                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 17.13                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         | 17.01                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 17.13                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 17.05                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 17.03                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 17.08                 |                          |                        | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6338.90               | 6333.92                  | 6338.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.99                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6309.68               | 6333.92                  | 6348.90                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 2419.02               | 3499.98                  | 3510.10                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 16.94                 | 17.05                    | 17.08                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6332.94               | 6333.92                  | 6334.92                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 16.99                 | 17.03                    | 16.94                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6329.03               | 6333.92                  | 6344.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 17.02                 | 17.04                    | 17.01                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6319.68               | 6333.92                  | 6350.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 2419.02               | 3499.98                  | 3520.10                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 16.94                 | 17.05                    | 17.00                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6313.94               | 6333.92                  | 6353.92                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 17.06                 | 17.03                    | 17.07                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6329.03               | 6333.92                  | 6349.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 17.02                 | 17.02                    | 16.95                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6309.68               | 6333.92                  | 6360.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3468.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 17.05                 | 17.05                    | 16.94                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6305.00               | 6333.92                  | 6361.96                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 17.05                 | 17.01                    | 16.96                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 6310.04               | 6333.92                  | 6353.92                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 17.00                 | 17.05                    | 16.97                  | 18.5                | 0.0      |  |



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| Part270_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 1         | 17.35                 | 17.36                    | 17.41                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 137       | 17.25                 | 17.39                    | 17.38                  |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 271       | 17.30                 | 17.33                    | 17.18                  |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 0         | 17.28                 | 17.34                    | 17.08                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 69        | 17.26                 | 17.32                    | 17.08                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 138       | 17.34                 | 17.22                    | 17.11                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 270     | 0         | 17.23                 | 17.32                    | 17.11                  |                     |          |  |  |  |  |
| 100                    | QPSK       | 1       | 1         | 17.35                 | 17.63                    | 17.60                  |                     |          |  |  |  |  |
| 100                    | QPSK       | 1       | 137       | 17.30                 | 17.31                    | 17.21                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 1       | 271       | 17.24                 | 17.28                    | 17.17                  |                     |          |  |  |  |  |
| 100                    | QPSK       | 135     | 0         | 17.27                 | 17.28                    | 17.17                  |                     |          |  |  |  |  |
| 100                    | QPSK       | 135     | 69        | 17.30                 | 17.33                    | 17.21                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 135     | 138       | 17.23                 | 17.31                    | 17.19                  |                     |          |  |  |  |  |
| 100                    | QPSK       | 270     | 0         | 17.25                 | 17.29                    | 17.15                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | 16QAM      | 1       | 1         | 17.33                 | 17.25                    | 17.19                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | 64QAM      | 1       | 1         | 17.31                 | 17.29                    | 17.07                  | 18.5                | 0.0      |  |  |  |  |
| 100                    | 256QAM     | 1       | 1         | 17.31                 | 17.28                    | 17.16                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 90                     | QPSK       | 1       | 1         | 17.63                 | 17.21                    | 17.12                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 80                     | QPSK       | 1       | 1         | 17.25                 | 17.18                    | 17.10                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 70                     | QPSK       | 1       | 1         | 17.15                 | 17.21                    | 17.05                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 60                     | QPSK       | 1       | 1         | 17.18                 | 17.20                    | 17.11                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 50                     | QPSK       | 1       | 1         | 17.25                 | 17.21                    | 17.17                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 40                     | QPSK       | 1       | 1         | 17.29                 | 17.19                    | 17.08                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 30                     | QPSK       | 1       | 1         | 17.26                 | 17.32                    | 17.17                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 20                     | QPSK       | 1       | 1         | 17.21                 | 17.30                    | 17.20                  | 19.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 15                     | QPSK       | 1       | 1         | 17.21                 | 17.23                    | 17.10                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 10                     | QPSK       | 1       | 1         | 17.28                 | 17.30                    | 17.19                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |  |

| Part270Q_n77_Ant 7 |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
|--------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|--|--|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 100                | PI2 BPSK   | 1       | 1         |                      | 21.36                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | PI2 BPSK   | 1       | 137       |                      | 20.99                   |                       |                     |          |     |  |  |  |
| 100                | PI2 BPSK   | 1       | 271       |                      | 21.02                   |                       |                     |          |     |  |  |  |
| 100                | PI2 BPSK   | 135     | 0         |                      | 20.94                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | PI2 BPSK   | 135     | 69        |                      | 20.95                   |                       |                     |          |     |  |  |  |
| 100                | PI2 BPSK   | 135     | 138       |                      | 20.89                   |                       |                     |          |     |  |  |  |
| 100                | PI2 BPSK   | 270     | 0         |                      | 20.93                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | QPSK       | 1       | 1         |                      | 21.38                   |                       |                     |          |     |  |  |  |
| 100                | QPSK       | 1       | 137       |                      | 20.92                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | QPSK       | 1       | 271       |                      | 20.98                   |                       |                     |          |     |  |  |  |
| 100                | QPSK       | 135     | 0         |                      | 21.03                   |                       |                     |          |     |  |  |  |
| 100                | QPSK       | 135     | 69        |                      | 21.00                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | QPSK       | 135     | 138       |                      | 20.87                   |                       |                     |          |     |  |  |  |
| 100                | QPSK       | 270     | 0         |                      | 21.11                   |                       |                     |          |     |  |  |  |
| 100                | 16QAM      | 1       | 1         |                      | 20.87                   |                       | 22.5                | 0.0      |     |  |  |  |
| 100                | 64QAM      | 1       | 1         |                      | 21.03                   |                       |                     |          |     |  |  |  |
| 100                | 256QAM     | 1       | 1         |                      | 21.00                   |                       |                     |          |     |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 90                 | QPSK       | 1       | 1         |                      | 21.30                   | 21.29                 | 21.34               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 80                 | QPSK       | 1       | 1         |                      | 21.32                   | 21.31                 | 21.33               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 70                 | QPSK       | 1       | 1         |                      | 21.33                   | 21.32                 | 21.32               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 60                 | QPSK       | 1       | 1         |                      | 21.36                   | 21.31                 | 21.28               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 50                 | QPSK       | 1       | 1         |                      | 21.29                   | 21.30                 | 21.32               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 40                 | QPSK       | 1       | 1         |                      | 21.27                   | 21.33                 | 21.27               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 30                 | QPSK       | 1       | 1         |                      | 21.34                   | 21.32                 | 21.33               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 20                 | QPSK       | 1       | 1         |                      | 21.30                   | 21.32                 | 21.29               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 15                 | QPSK       | 1       | 1         |                      | 21.34                   | 21.32                 | 21.27               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| 10                 | QPSK       | 1       | 1         |                      | 21.30                   | 21.31                 | 21.35               | 22.5     | 0.0 |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |     |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |     |  |  |  |

| Part270_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 21.61                 | 21.47                    | 21.42                  | 22.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 21.75                 | 21.63                    | 21.56                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 21.65                 | 21.57                    | 21.42                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 21.68                 | 21.49                    | 21.37                  | 22.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 21.68                 | 21.49                    | 21.44                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 138       | 21.64                 | 21.53                    | 21.38                  |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 21.64                 | 21.48                    | 21.30                  | 22.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 21.71                 | 21.70                    | 21.51                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 21.64                 | 21.59                    | 21.46                  | 22.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 21.59                 | 21.67                    | 21.43                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 21.67                 | 21.71                    | 21.48                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 21.71                 | 21.70                    | 21.51                  | 22.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 21.65                 | 21.63                    | 21.40                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 21.68                 | 21.68                    | 21.39                  |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 21.69                 | 21.65                    | 21.35                  | 22.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 21.68                 | 21.56                    | 21.47                  |                     |          |  |
| 100               | 256QAM     | 1       | 1         | 21.70                 | 21.62                    | 21.31                  |                     |          |  |
| Channel           |            |         |           | 64966                 | 65600                    | 66232                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 1043.02               | 3640                     | 3934.98                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.64                 | 21.67                    | 21.48                  |                     |          |  |
| Channel           |            |         |           | 649334                | 65600                    | 66266                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 1242.01               | 3590                     | 3949.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.63                 | 21.65                    | 21.51                  |                     |          |  |
| Channel           |            |         |           | 649600                | 65600                    | 66300                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 21.62                 | 21.72                    | 21.50                  |                     |          |  |
| Channel           |            |         |           | 64966                 | 65600                    | 66332                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 21.63                 | 21.71                    | 21.51                  |                     |          |  |
| Channel           |            |         |           | 649334                | 65600                    | 66266                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 1242.01               | 3590                     | 3949.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| Channel           |            |         |           | 649600                | 65600                    | 66400                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 21.65                 | 21.70                    | 21.50                  |                     |          |  |
| 50                | QPSK       | 1       | 1         | 21.65                 | 21.70                    | 21.50                  |                     |          |  |
| Channel           |            |         |           | 649600                | 65600                    | 66400                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730                  | 3840                     | 3940                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 21.60                 | 21.71                    | 21.47                  |                     |          |  |
| Channel           |            |         |           | 647668                | 65600                    | 66432                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3719.02               | 3840                     | 3968.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 21.63                 | 21.68                    | 21.49                  |                     |          |  |
| Channel           |            |         |           | 647234                | 65600                    | 66466                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 21.66                 | 21.66                    | 21.51                  |                     |          |  |
| Channel           |            |         |           | 647613                | 65600                    | 66452                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.02               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 21.68                 | 21.73                    | 21.49                  |                     |          |  |
| Channel           |            |         |           | 647400                | 65600                    | 66500                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3970                   |                     |          |  |
| 10                | QPSK       | 1       | 1         | 21.65                 | 21.74                    | 21.51                  |                     |          |  |





| Part27Q_n77 HPUE_Ant 7 |            |         |           |                      |                         |                       |                     |          |                     |          |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|---------------------|----------|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |                     |          |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 100                    | PI2 BPSK   | 1       | 1         |                      | 2136                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | PI2 BPSK   | 1       | 137       |                      | 2099                    |                       |                     |          |                     |          |
| 100                    | PI2 BPSK   | 1       | 271       |                      | 2102                    |                       |                     |          |                     |          |
| 100                    | PI2 BPSK   | 135     | 0         |                      | 2094                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | PI2 BPSK   | 135     | 69        |                      | 2095                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | PI2 BPSK   | 135     | 138       |                      | 2089                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | PI2 BPSK   | 270     | 0         |                      | 2093                    |                       |                     |          |                     |          |
| 100                    | QPSK       | 1       | 1         |                      | 2138                    |                       |                     |          |                     |          |
| 100                    | QPSK       | 1       | 137       |                      | 2092                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | QPSK       | 1       | 271       |                      | 2098                    |                       |                     |          |                     |          |
| 100                    | QPSK       | 135     | 0         |                      | 2103                    |                       |                     |          |                     |          |
| 100                    | QPSK       | 135     | 69        |                      | 2120                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | QPSK       | 135     | 138       |                      | 2087                    |                       |                     |          |                     |          |
| 100                    | QPSK       | 270     | 0         |                      | 2111                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | 16QAM      | 1       | 1         |                      | 2087                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | 64QAM      | 1       | 1         |                      | 2103                    |                       | 22.5                | 0.0      |                     |          |
| 100                    | 256QAM     | 1       | 1         |                      | 2100                    |                       | 22.5                | 0.0      |                     |          |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 90                     | QPSK       | 1       | 1         |                      | 63300                   | 63332                 | 63366               |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3495                    | 3499.98               | 3504.99             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 80                     | QPSK       | 1       | 1         |                      | 63266                   | 63332                 | 63400               |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3490.02                 | 3499.98               | 3510                |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 70                     | QPSK       | 1       | 1         |                      | 63224                   | 63332                 | 63432               |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3485.01                 | 3499.98               | 3514.98             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 60                     | QPSK       | 1       | 1         |                      | 63200                   | 63332                 | 63466               |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3480                    | 3499.98               | 3519.99             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 50                     | QPSK       | 1       | 1         |                      | 631334                  | 63332                 | 635332              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3470.01                 | 3499.98               | 3529.98             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 40                     | QPSK       | 1       | 1         |                      | 631000                  | 63332                 | 635666              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3465.01                 | 3499.98               | 3534.99             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 30                     | QPSK       | 1       | 1         |                      | 630500                  | 63332                 | 636166              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3457.5                  | 3499.98               | 3542.49             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 20                     | QPSK       | 1       | 1         |                      | 630000                  | 63332                 | 636666              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3450.01                 | 3499.98               | 3540.98             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 15                     | QPSK       | 1       | 1         |                      | 631334                  | 63332                 | 635332              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3455.01                 | 3499.98               | 3544.98             |          | 22.5                | 0.0      |
| Channel                |            |         |           |                      |                         |                       |                     |          |                     |          |
| Frequency (MHz)        |            |         |           |                      |                         |                       |                     |          |                     |          |
| 10                     | QPSK       | 1       | 1         |                      | 631000                  | 63332                 | 635000              |          | Tune-up limit (dBm) | MPR (dB) |
|                        |            |         |           |                      | 3450.01                 | 3499.98               | 3540.98             |          | 22.5                | 0.0      |

| Part27Q_n77 HPUE_Ant 7 |            |         |           |                     |                         |                          |                        |             |  |  |
|------------------------|------------|---------|-----------|---------------------|-------------------------|--------------------------|------------------------|-------------|--|--|
| BW (MHz)               | Modulation | RB Size | RB Offset | Power<br>Ch. / Freq | Power<br>Mid Ch. / Freq | Power<br>High Ch. / Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 100                    | PI2 BPSK   | 1       | 1         | 650000              | 650000                  | 650000                   |                        |             |  |  |
|                        |            |         |           | 3730                | 3740                    | 3750                     |                        |             |  |  |
| 100                    | PI2 BPSK   | 1       | 1         | 2181                | 2147                    | 2142                     |                        |             |  |  |
| 100                    | PI2 BPSK   | 1       | 137       | 2175                | 2163                    | 2156                     | 22.5                   | 0.0         |  |  |
| 100                    | PI2 BPSK   | 1       | 271       | 2185                | 2187                    | 2142                     |                        |             |  |  |
| 100                    | PI2 BPSK   | 135     | 0         | 2168                | 2149                    | 2137                     | 22.5                   | 0.0         |  |  |
| 100                    | PI2 BPSK   | 135     | 69        | 2188                | 2149                    | 2144                     | 22.5                   | 0.0         |  |  |
| 100                    | PI2 BPSK   | 135     | 138       | 2184                | 2153                    | 2138                     | 22.5                   | 0.0         |  |  |
| 100                    | PI2 BPSK   | 270     | 0         | 2184                | 2148                    | 2130                     | 22.5                   | 0.0         |  |  |
| 100                    | QPSK       | 1       | 1         | 2171                | 2176                    | 2154                     |                        |             |  |  |
| 100                    | QPSK       | 1       | 137       | 2184                | 2159                    | 2146                     | 22.5                   | 0.0         |  |  |
| 100                    | QPSK       | 1       | 271       | 2189                | 2187                    | 2143                     |                        |             |  |  |
| 100                    | QPSK       | 135     | 0         | 2187                | 2171                    | 2148                     |                        |             |  |  |
| 100                    | QPSK       | 135     | 69        | 2171                | 2175                    | 2151                     | 22.5                   | 0.0         |  |  |
| 100                    | QPSK       | 135     | 138       | 2185                | 2163                    | 2140                     | 22.5                   | 0.0         |  |  |
| 100                    | QPSK       | 270     | 0         | 2188                | 2188                    | 2139                     | 22.5                   | 0.0         |  |  |
| 100                    | 16QAM      | 1       | 1         | 2189                | 2185                    | 2135                     | 22.5                   | 0.0         |  |  |
| 100                    | 64QAM      | 1       | 1         | 2188                | 2156                    | 2147                     | 22.5                   | 0.0         |  |  |
| 100                    | 256QAM     | 1       | 1         | 2170                | 2162                    | 2131                     | 22.5                   | 0.0         |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 90                     | QPSK       | 1       | 1         | 648668              | 650000                  | 662332                   |                        |             |  |  |
|                        |            |         |           | 3745.02             | 3740                    | 3744.98                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 80                     | QPSK       | 1       | 1         | 648334              | 650000                  | 662666                   |                        |             |  |  |
|                        |            |         |           | 3740.01             | 3740                    | 3750.99                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 70                     | QPSK       | 1       | 1         | 648000              | 650000                  | 663000                   |                        |             |  |  |
|                        |            |         |           | 3735                | 3740                    | 3745                     | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 60                     | QPSK       | 1       | 1         | 647668              | 650000                  | 663332                   |                        |             |  |  |
|                        |            |         |           | 3730.02             | 3740                    | 3749.98                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 50                     | QPSK       | 1       | 1         | 647334              | 650000                  | 663666                   |                        |             |  |  |
|                        |            |         |           | 3725.01             | 3740                    | 3754.98                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 40                     | QPSK       | 1       | 1         | 647000              | 650000                  | 664000                   |                        |             |  |  |
|                        |            |         |           | 3720                | 3740                    | 3760                     | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 30                     | QPSK       | 1       | 1         | 646668              | 650000                  | 664332                   |                        |             |  |  |
|                        |            |         |           | 3715.02             | 3740                    | 3764.98                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 20                     | QPSK       | 1       | 1         | 646334              | 650000                  | 664666                   |                        |             |  |  |
|                        |            |         |           | 3710.01             | 3740                    | 3769.98                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 15                     | QPSK       | 1       | 1         | 646000              | 650000                  | 665000                   |                        |             |  |  |
|                        |            |         |           | 3707.52             | 3740                    | 3772.48                  | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |
| Channel                |            |         |           |                     |                         |                          |                        |             |  |  |
| Frequency (MHz)        |            |         |           |                     |                         |                          |                        |             |  |  |
| 10                     | QPSK       | 1       | 1         | 645668              | 650000                  | 665332                   |                        |             |  |  |
|                        |            |         |           | 3705                | 3740                    | 3795                     | Tune-up limit (dBm)    | MPR         |  |  |
|                        |            |         |           |                     |                         |                          |                        | (dB)        |  |  |

| Part27Q_n77_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|--------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         |                      | 14.93                   |                       | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       |                      | 14.86                   |                       |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       |                      | 14.84                   |                       |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         |                      | 14.77                   |                       | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        |                      | 14.83                   |                       | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       |                      | 14.88                   |                       | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         |                      | 14.79                   |                       | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         |                      | 15.03                   |                       | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       |                      | 14.74                   |                       |                     |          |  |
| 100                | QPSK       | 1       | 271       |                      | 14.73                   |                       |                     |          |  |
| 100                | QPSK       | 135     | 0         |                      | 14.89                   |                       | 16.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        |                      | 14.95                   |                       |                     |          |  |
| 100                | QPSK       | 135     | 138       |                      | 14.93                   |                       |                     |          |  |
| 100                | QPSK       | 270     | 0         |                      | 14.87                   |                       | 16.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         |                      | 14.73                   |                       | 16.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                      | 14.79                   |                       | 16.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                      | 14.82                   |                       | 16.0                | 0.0      |  |
| Channel            |            |         |           | 633000               | 633352                  | 633686                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3495                 | 3498.98                 | 3504.99               |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 14.99                | 14.93                   | 15.00                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 630668               | 633352                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3490.02              | 3498.98                 | 3501                  |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 14.93                | 14.99                   | 14.98                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 632104               | 633352                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3486.01              | 3498.98                 | 3514.98               |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 14.92                | 14.96                   | 14.96                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 630000               | 633352                  | 633660                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3480                 | 3498.98                 | 3519.99               |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 14.99                | 15.00                   | 15.01                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 631668               | 633352                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3479.02              | 3498.98                 | 3525                  |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 14.94                | 14.99                   | 14.94                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 631334               | 633352                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3470.01              | 3498.98                 | 3529.98               |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 15.00                | 14.97                   | 14.99                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 632160               | 633352                  | 635660                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3485                 | 3498.98                 | 3534.98               |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 14.94                | 14.95                   | 14.98                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 630668               | 633352                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3490.02              | 3498.98                 | 3540                  |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 14.93                | 14.97                   | 14.98                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 630000               | 633352                  | 638166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3475.5               | 3498.98                 | 3542.49               |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 15.00                | 15.00                   | 14.98                 | 16.0                | 0.0      |  |
| Channel            |            |         |           | 632332               | 633352                  | 638332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3495.01              | 3498.98                 | 3544.98               |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 14.96                | 14.92                   | 14.97                 | 16.0                | 0.0      |  |



| Part27Q_n77_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 650000                | 650000                   | 660000                 |                     |          |  |
| Frequency (MHz)    |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 14.06                 | 14.12                    | 14.03                  |                     |          |  |
| 100                | PI2 BPSK   | 1       | 137       | 14.27                 | 14.32                    | 14.24                  |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       | 14.12                 | 14.22                    | 14.29                  | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 0         | 14.26                 | 14.28                    | 14.34                  | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        | 14.22                 | 14.32                    | 14.31                  | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       | 14.26                 | 14.29                    | 14.22                  |                     |          |  |
| 100                | PI2 BPSK   | 270     | 0         | 14.23                 | 14.35                    | 14.26                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 14.30                 | 14.38                    | 14.25                  |                     |          |  |
| 100                | QPSK       | 1       | 137       | 14.19                 | 14.25                    | 14.08                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 271       | 14.28                 | 14.28                    | 14.15                  |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.18                 | 14.32                    | 14.18                  |                     |          |  |
| 100                | QPSK       | 135     | 69        | 14.27                 | 14.35                    | 14.16                  | 16.0                | 0.0      |  |
| 100                | QPSK       | 135     | 138       | 14.18                 | 14.32                    | 14.07                  |                     |          |  |
| 100                | QPSK       | 270     | 0         | 14.32                 | 14.33                    | 14.31                  | 16.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 14.20                 | 14.29                    | 14.19                  | 16.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.22                 | 14.32                    | 14.30                  | 16.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 14.25                 | 14.28                    | 14.10                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 14.20                 | 14.27                    | 14.10                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 649334                | 650000                   | 660666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 14.21                 | 14.29                    | 14.15                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 649000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 14.19                 | 14.30                    | 14.14                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 14.20                 | 14.27                    | 14.16                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 14.28                 | 14.25                    | 14.23                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 648000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 14.23                 | 14.28                    | 14.23                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 14.28                 | 14.30                    | 14.16                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 14.15                 | 14.29                    | 14.17                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 647000                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 14.21                 | 14.32                    | 14.21                  | 16.0                | 0.0      |  |
| Channel            |            |         |           | 646334                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)    |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 14.20                 | 14.32                    | 14.15                  | 16.0                | 0.0      |  |

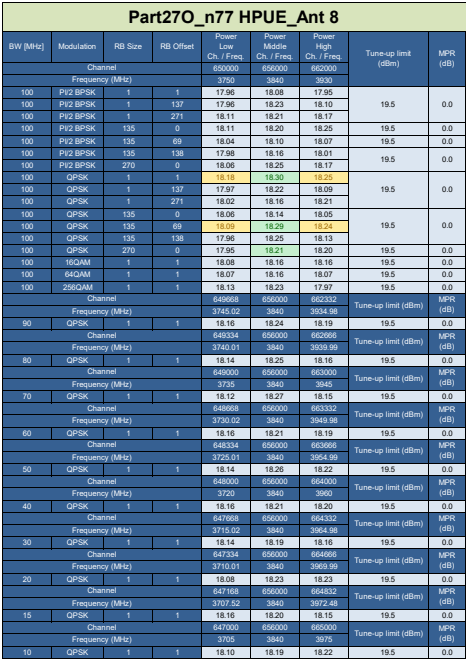
| Part27Q_n77 HPUE_Ant 10 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633000               | 633332                  | 3499.98               |                     |          |  |
| Frequency (MHz)         |            |         |           | 14.93                | 14.86                   | 14.84                 | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 1         |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       |                      |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         |                      |                         |                       |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                      | 15.03                   | 15.03                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 137       |                      | 14.84                   | 14.84                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                      | 14.78                   | 14.78                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         |                      | 14.89                   | 14.89                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        |                      | 14.95                   | 14.95                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                      | 14.93                   | 14.93                 | 16.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         |                      | 14.87                   | 14.87                 | 16.0                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         |                      | 14.73                   | 14.73                 | 16.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                      | 14.79                   | 14.79                 | 16.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                      | 14.82                   | 14.82                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 14.99                | 14.93                   | 15.00                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02              | 3499.98                 | 3510                  |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 14.93                | 14.99                   | 14.98                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01              | 3499.98                 | 3514.98               |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 14.92                | 14.96                   | 14.96                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                 | 3499.98                 | 3518.98               |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 14.99                | 15.00                   | 15.01                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02              | 3499.98                 | 3525                  |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 14.94                | 14.99                   | 14.94                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01              | 3499.98                 | 3524.98               |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 15.00                | 14.97                   | 14.99                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                 | 3499.98                 | 3534.98               |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 14.94                | 14.95                   | 14.98                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 14.93                | 14.97                   | 14.98                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5               | 3499.98                 | 3542.48               |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 15.00                | 15.00                   | 14.98                 | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 630000               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 14.96                | 14.92                   | 14.97                 | 16.0                | 0.0      |  |

| Part27Q_n77 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 660000                | 660000                   | 662000                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 14.06                 | 14.12                    | 14.03                  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 14.27                 | 14.32                    | 14.24                  | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 271       | 14.12                 | 14.22                    | 14.29                  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 14.26                 | 14.28                    | 14.34                  | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 14.22                 | 14.32                    | 14.31                  | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       | 14.26                 | 14.29                    | 14.22                  | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         | 14.23                 | 14.35                    | 14.26                  |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 14.30                 | 14.38                    | 14.25                  |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 14.19                 | 14.25                    | 14.08                  | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 14.28                 | 14.28                    | 14.15                  |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 14.18                 | 14.32                    | 14.18                  |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 14.27                 | 14.35                    | 14.16                  | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 14.18                 | 14.32                    | 14.07                  |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 14.32                 | 14.33                    | 14.31                  | 16.0                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         | 14.20                 | 14.29                    | 14.19                  | 16.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 14.22                 | 14.32                    | 14.30                  | 16.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 14.25                 | 14.28                    | 14.10                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 14.20                 | 14.27                    | 14.10                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 649334                | 650000                   | 660666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 14.21                 | 14.29                    | 14.15                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 649000                | 650000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 14.19                 | 14.30                    | 14.14                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648668                | 650000                   | 660332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 14.20                 | 14.27                    | 14.16                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 649334                | 650000                   | 660666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 14.26                 | 14.35                    | 14.23                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 650000                   | 660400                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 14.23                 | 14.28                    | 14.23                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 14.29                 | 14.30                    | 14.16                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647334                | 650000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 14.19                 | 14.28                    | 14.17                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647000                | 650000                   | 664998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 14.21                 | 14.32                    | 14.21                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 647500                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3974                   |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 14.20                 | 14.32                    | 14.15                  | 16.0                | 0.0      |  |



| Part27Q_n77_Ant 8             |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
|-------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|--|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 3499.98              |                         |                       | 19.5                | 0.0      |  |  |  |  |
| 100                           | PI2 BPSK   | 1       | 1         | 18.09                |                         |                       |                     |          |  |  |  |  |
| 100                           | PI2 BPSK   | 1       | 137       | 18.28                |                         |                       |                     |          |  |  |  |  |
| 100                           | PI2 BPSK   | 1       | 271       | 18.22                |                         |                       |                     |          |  |  |  |  |
| 100                           | PI2 BPSK   | 135     | 0         | 18.23                |                         |                       |                     |          |  |  |  |  |
| 100                           | PI2 BPSK   | 135     | 69        | 18.31                |                         |                       | 19.5                | 0.0      |  |  |  |  |
| 100                           | PI2 BPSK   | 135     | 138       | 18.21                |                         |                       |                     |          |  |  |  |  |
| 100                           | PI2 BPSK   | 270     | 0         | 18.28                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 1       | 1         | 18.32                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 1       | 137       | 18.24                |                         |                       | 19.5                | 0.0      |  |  |  |  |
| 100                           | QPSK       | 1       | 271       | 18.31                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 135     | 0         | 18.29                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 135     | 69        | 18.30                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 135     | 138       | 18.27                |                         |                       |                     |          |  |  |  |  |
| 100                           | QPSK       | 270     | 0         | 18.27                |                         |                       | 19.5                | 0.0      |  |  |  |  |
| 100                           | 16QAM      | 1       | 1         | 18.29                |                         |                       |                     |          |  |  |  |  |
| 100                           | 64QAM      | 1       | 1         | 18.28                |                         |                       |                     |          |  |  |  |  |
| 100                           | 256QAM     | 1       | 1         | 18.27                |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3495                 | 3499.98                 | 3504.99               | 19.5                | 0.0      |  |  |  |  |
| 90 QPSK 1 1 18.26 18.28 18.24 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 632068               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3490.02              | 3499.98                 | 3510                  | 19.5                | 0.0      |  |  |  |  |
| 80 QPSK 1 1 18.25 18.26 18.28 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3485.01              | 3499.98                 | 3514.98               | 19.5                | 0.0      |  |  |  |  |
| 70 QPSK 1 1 18.26 18.25 18.27 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3490                 | 3499.98                 | 3518.99               | 19.5                | 0.0      |  |  |  |  |
| 60 QPSK 1 1 18.23 18.21 18.28 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3479.02              | 3499.98                 | 3525                  | 19.5                | 0.0      |  |  |  |  |
| 50 QPSK 1 1 18.30 18.21 18.25 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3470.01              | 3499.98                 | 3529.98               | 19.5                | 0.0      |  |  |  |  |
| 40 QPSK 1 1 18.23 18.22 18.21 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3465                 | 3499.98                 | 3534.99               | 19.5                | 0.0      |  |  |  |  |
| 30 QPSK 1 1 18.27 18.21 18.26 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3460.02              | 3499.98                 | 3540                  | 19.5                | 0.0      |  |  |  |  |
| 20 QPSK 1 1 18.25 18.29 18.27 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 630500               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3457.5               | 3499.98                 | 3542.49               | 19.5                | 0.0      |  |  |  |  |
| 15 QPSK 1 1 18.22 18.29 18.29 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Channel                       |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
|                               |            |         |           | 3455.01              | 3499.98                 | 3544.98               | 19.5                | 0.0      |  |  |  |  |
| 10 QPSK 1 1 18.27 18.30 18.24 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |

| Part27Q_n77_Ant 8 |            |         |           |                     |                        |                      |                     |          |  |
|-------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch./ Freq | Power Middle Ch./ Freq | Power High Ch./ Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                | 650000                 | 652000               | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 1         | 17.96 18.08 17.96   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 17.96 18.23 18.10   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 18.11 18.21 18.17   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 18.11 18.20 18.25   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 18.04 18.16 18.07   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 135     | 138       | 17.98 18.16 18.01   |                        |                      |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 18.06 18.25 18.17   |                        |                      |                     |          |  |
| 100               | QPSK       | 1       | 1         | 18.18 18.30 18.25   |                        |                      |                     |          |  |
| 100               | QPSK       | 1       | 137       | 17.97 18.22 18.09   |                        |                      |                     |          |  |
| 100               | QPSK       | 1       | 271       | 18.02 18.16 18.21   |                        |                      |                     |          |  |
| 100               | QPSK       | 135     | 0         | 18.06 18.14 18.05   |                        |                      |                     |          |  |
| 100               | QPSK       | 135     | 69        | 18.19 18.29 18.24   |                        |                      |                     |          |  |
| 100               | QPSK       | 135     | 138       | 17.96 18.25 18.13   |                        |                      |                     |          |  |
| 100               | QPSK       | 270     | 0         | 17.95 18.23 18.20   |                        |                      |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 18.08 18.16 18.16   |                        |                      |                     |          |  |
| 100               | 64QAM      | 1       | 1         | 18.07 18.16 18.07   |                        |                      |                     |          |  |
| 100               | 256QAM     | 1       | 1         | 18.13 18.23 17.97   |                        |                      |                     |          |  |
| Channel           |            |         |           | 650668              | 650000                 | 650332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02             | 3660                   | 3744.98              |                     |          |  |
| 90                | QPSK       | 1       | 1         | 18.16 18.24 18.19   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 649334              | 650000                 | 650666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01             | 3640                   | 3739.99              |                     |          |  |
| 80                | QPSK       | 1       | 1         | 18.14 18.25 18.16   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 649000              | 650000                 | 650000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                | 3640                   | 3645                 |                     |          |  |
| 70                | QPSK       | 1       | 1         | 18.12 18.27 18.15   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 648668              | 650000                 | 653332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3732.02             | 3640                   | 3643.98              |                     |          |  |
| 60                | QPSK       | 1       | 1         | 18.16 18.21 18.19   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 648334              | 650000                 | 650666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01             | 3640                   | 3654.98              |                     |          |  |
| 50                | QPSK       | 1       | 1         | 18.14 18.26 18.22   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 648000              | 650000                 | 650000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                | 3640                   | 3660                 |                     |          |  |
| 40                | QPSK       | 1       | 1         | 18.16 18.21 18.20   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 647668              | 650000                 | 650332               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02             | 3640                   | 3654.98              |                     |          |  |
| 30                | QPSK       | 1       | 1         | 18.14 18.19 18.16   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 647334              | 650000                 | 650666               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01             | 3640                   | 3669.99              |                     |          |  |
| 20                | QPSK       | 1       | 1         | 18.08 18.23 18.23   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 647168              | 650000                 | 650432               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52             | 3640                   | 3677.48              |                     |          |  |
| 15                | QPSK       | 1       | 1         | 18.16 18.20 18.15   |                        |                      | 19.5                | 0.0      |  |
| Channel           |            |         |           | 647100              | 650000                 | 650300               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                | 3640                   | 3675                 |                     |          |  |
| 10                | QPSK       | 1       | 1         | 18.10 18.19 18.22   |                        |                      | 19.5                | 0.0      |  |



| Part27Q n78 Ant 4 |            |         |           |                     |                        |                      |                     |          |  |
|-------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 1         | 17.06               | 63332                  | 63332                |                     |          |  |
| 100               | Pi2 BPSK   | 1       | 137       | 17.02               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | Pi2 BPSK   | 1       | 271       | 16.98               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 0         | 16.75               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 69        | 16.87               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | Pi2 BPSK   | 135     | 138       | 16.93               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | Pi2 BPSK   | 270     | 0         | 16.80               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 17.00               | 63332                  | 63332                |                     |          |  |
| 100               | QPSK       | 1       | 137       | 16.77               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 16.83               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 16.74               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 16.96               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 16.87               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 16.90               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 16.85               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 16.85               | 63332                  | 63332                | 18.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 16.71               | 63332                  | 63366                | 18.5                | 0.0      |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |
| 90                | QPSK       | 1       | 1         | 17.06               | 63332                  | 63366                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.06               | 63332                  | 63366                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.02               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 1       | 137       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 271       | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 0         | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 135     | 69        | 17.03               | 63332                  | 63400                | 18.5                | 0.0      |  |
| 90                | QPSK       | 135     | 138       | 17.03               | 63332                  | 63400                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 270     | 0         | 17.03               | 63332                  | 63400                |                     |          |  |

| Part270 n78 Ant 4 |                 |         |           |                     |                        |                      |                     |                     |          |
|-------------------|-----------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|---------------------|----------|
| BW (MHz)          | Modulation      | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB)            |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 3750                | 650000                 |                      |                     |                     |          |
| 100               | PQ2 BPSK        | 1       | 1         |                     | 17.34                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 1337                | 17.43                  |                      | 18.5                | 0.0                 |          |
| 100               | PQ2 BPSK        | 1       | 137       |                     | 17.43                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 9                   | 17.20                  |                      | 18.5                | 0.0                 |          |
| 100               | PQ2 BPSK        | 135     | 69        |                     | 17.20                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 135                 | 69                     | 17.20                | 18.5                | 0.0                 |          |
| 100               | PQ2 BPSK        | 135     | 138       |                     | 17.15                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 210                 | 0.211                  |                      | 18.5                | 0.0                 |          |
| 100               | PQ2 BPSK        | 210     | 0         |                     | 17.47                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 1                   | 17.12                  |                      | 18.5                | 0.0                 |          |
| 100               | QPSK            | 1       | 137       |                     | 17.12                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 221                 | 17.16                  |                      |                     |                     |          |
| 100               | QPSK            | 1       | 221       |                     | 17.09                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 135                 | 0                      | 17.39                | 18.5                | 0.0                 |          |
| 100               | QPSK            | 135     | 69        |                     | 17.39                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 135                 | 136                    | 17.16                | 18.5                | 0.0                 |          |
| 100               | QPSK            | 135     | 136       |                     | 17.20                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 270                 | 0                      | 17.16                | 18.5                | 0.0                 |          |
| 100               | QPSK            | 270     | 0         |                     | 17.16                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 1                   | 17.16                  |                      | 18.5                | 0.0                 |          |
| 100               | 16QAM           | 1       | 1         |                     | 17.16                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 1                   | 17.14                  |                      | 18.5                | 0.0                 |          |
| 100               | 64QAM           | 1       | 1         |                     | 17.28                  |                      |                     |                     |          |
|                   | Channel         |         |           |                     |                        |                      |                     |                     |          |
|                   | Frequency (MHz) |         |           | 64956               | 650000                 | 650332               |                     |                     | MPR (dB) |
|                   | Channel         |         |           | 746202              | 3750                   | 3794.98              |                     | Tune-up limit (dBm) |          |
| 90                | QPSK            | 1       | 1         | 17.39               | 17.38                  | 17.45                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 649334              | 650000                 | 650666               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 374621              | 3750                   | 3794.99              |                     | Tune-up limit (dBm) |          |
| 80                | QPSK            | 1       | 1         | 17.43               | 17.45                  | 17.43                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 649600              | 650000                 | 651000               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3735                | 3760                   | 3765                 |                     | Tune-up limit (dBm) |          |
| 70                | QPSK            | 1       | 1         | 17.27               | 17.28                  | 17.28                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 649668              | 650000                 | 651532               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3730                | 3760                   | 3769.98              |                     | Tune-up limit (dBm) |          |
| 60                | QPSK            | 1       | 1         | 17.41               | 17.41                  | 17.37                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 649334              | 650000                 | 651666               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3725.01             | 3750                   | 3774.99              |                     | Tune-up limit (dBm) |          |
| 50                | QPSK            | 1       | 1         | 17.40               | 17.41                  | 17.39                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 649600              | 650000                 | 652000               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3720                | 3760                   | 3760                 |                     | Tune-up limit (dBm) |          |
| 40                | QPSK            | 1       | 1         | 17.39               | 17.45                  | 17.42                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 647668              | 650000                 | 652332               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3715.02             | 3750                   | 3784.98              |                     | Tune-up limit (dBm) |          |
| 30                | QPSK            | 1       | 1         | 17.29               | 17.43                  | 17.43                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 647334              | 650000                 | 652666               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3710.01             | 3750                   | 3789.99              |                     | Tune-up limit (dBm) |          |
| 20                | QPSK            | 1       | 1         | 17.45               | 17.37                  | 17.38                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 647668              | 650000                 | 653332               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 3707.52             | 3750                   | 3792.48              |                     | Tune-up limit (dBm) |          |
| 15                | QPSK            | 1       | 1         | 17.38               | 17.38                  | 17.37                | 18.5                | 0.0                 |          |
|                   | Channel         |         |           | 647100              | 650000                 | 653800               |                     |                     | MPR (dB) |
|                   | Frequency (MHz) |         |           | 37005               | 3750                   | 3795                 |                     | Tune-up limit (dBm) |          |
| 10                | QPSK            | 1       | 1         | 17.43               | 17.43                  | 17.38                | 18.5                | 0.0                 |          |



| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 1         | 17.06                 |                          |                        |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 137       | 17.00                 |                          |                        |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 1       | 271       | 16.82                 |                          |                        |                     |          |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 0         | 16.75                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 69        | 16.87                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 135     | 138       | 16.93                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | PI2 BPSK   | 270     | 0         | 16.80                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 1       | 1         | 17.09                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 1       | 137       | 16.77                 |                          |                        |                     |          |  |  |  |  |
| 100                    | QPSK       | 1       | 271       | 16.83                 |                          |                        |                     |          |  |  |  |  |
| 100                    | QPSK       | 135     | 0         | 16.74                 |                          |                        |                     |          |  |  |  |  |
| 100                    | QPSK       | 135     | 69        | 16.91                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 135     | 138       | 16.87                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | QPSK       | 270     | 0         | 16.90                 |                          |                        |                     |          |  |  |  |  |
| 100                    | 16QAM      | 1       | 1         | 16.88                 |                          |                        |                     |          |  |  |  |  |
| 100                    | 64QAM      | 1       | 1         | 16.85                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| 100                    | 256QAM     | 1       | 1         | 16.71                 |                          |                        | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                | 18.5                | 0.0      |  |  |  |  |
| 90                     | QPSK       | 1       | 1         | 17.06                 | 16.99                    | 17.05                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3510                   | 18.5                | 0.0      |  |  |  |  |
| 80                     | QPSK       | 1       | 1         | 17.05                 | 17.03                    | 17.06                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 18.5                | 0.0      |  |  |  |  |
| 70                     | QPSK       | 1       | 1         | 17.06                 | 16.99                    | 16.98                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3489.02               | 3499.98                  | 3519.99                | 18.5                | 0.0      |  |  |  |  |
| 60                     | QPSK       | 1       | 1         | 17.05                 | 17.07                    | 17.06                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | 18.5                | 0.0      |  |  |  |  |
| 50                     | QPSK       | 1       | 1         | 17.03                 | 17.07                    | 17.03                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 18.5                | 0.0      |  |  |  |  |
| 40                     | QPSK       | 1       | 1         | 17.00                 | 17.03                    | 17.00                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 630966                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3465.02               | 3499.98                  | 3534.99                | 18.5                | 0.0      |  |  |  |  |
| 30                     | QPSK       | 1       | 1         | 17.00                 | 17.04                    | 17.00                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3460.03               | 3499.98                  | 3540                   | 18.5                | 0.0      |  |  |  |  |
| 20                     | QPSK       | 1       | 1         | 17.03                 | 17.04                    | 16.98                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 18.5                | 0.0      |  |  |  |  |
| 15                     | QPSK       | 1       | 1         | 17.02                 | 16.99                    | 17.00                  | 18.5                | 0.0      |  |  |  |  |
| Channel                |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 18.5                | 0.0      |  |  |  |  |
| 10                     | QPSK       | 1       | 1         | 17.03                 | 17.07                    | 17.05                  | 18.5                | 0.0      |  |  |  |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 650000                |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 1         | 17.34                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 137       | 17.43                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 17.24                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 17.20                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 17.20                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 17.15                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 17.21                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 17.47                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 17.12                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 17.16                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 17.09                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 17.36                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 17.16                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 17.20                 |                          |                        |                     |          |  |
| 100                    | 16QAM      | 1       | 1         | 17.16                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 17.14                 |                          |                        | 18.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 17.26                 |                          |                        | 18.5                | 0.0      |  |
| Channel                |            |         |           | 648666                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3750                     | 3754.98                | 18.5                | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 17.39                 | 17.38                    | 17.45                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 648334                | 650000                   | 650666                 | 18.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 17.45                 | 17.45                    | 17.43                  |                     |          |  |
| Channel                |            |         |           | 648000                | 650000                   | 651000                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3750                     | 3765                   | 18.5                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 17.37                 | 17.36                    | 17.38                  |                     |          |  |
| Channel                |            |         |           | 648666                | 650000                   | 651332                 |                     |          |  |
| Frequency (MHz)        |            |         |           | 17.40                 | 17.41                    | 17.39                  |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 648334                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 3720                  | 3750                     | 3760                   | 18.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 17.39                 | 17.45                    | 17.42                  |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 648000                | 650000                   | 652000                 |                     |          |  |
| Channel                |            |         |           | 3715.02               | 3750                     | 3764.98                |                     |          |  |
| Frequency (MHz)        |            |         |           | 17.36                 | 17.43                    | 17.43                  | 18.5                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 647000                | 650000                   | 653000                 | 18.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 17.45                 | 17.37                    | 17.36                  |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 647166                | 650000                   | 653032                 |                     |          |  |
| Channel                |            |         |           | 3707.52               | 3750                     | 3752.48                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 17.38                 | 17.38                    | 17.37                  | 18.5                | 0.0      |  |
| Channel                |            |         |           | 646700                | 650000                   | 653100                 | 18.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 17.43                 | 17.43                    | 17.38                  |                     |          |  |

| Part27Q_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332               |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 19.75                |                         |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 19.86                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 19.89                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 19.97                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 19.79                |                         |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 19.90                |                         |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 19.91                |                         |                       | 21.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 20.09                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 19.80                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 271       | 19.84                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         | 19.93                |                         |                       | 21.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 20.00                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 138       | 19.93                |                         |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 19.91                |                         |                       |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 19.89                |                         |                       | 21.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 19.90                |                         |                       | 21.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 19.79                |                         |                       | 21.0                | 0.0      |  |
| Channel           |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 20.01                | 20.05                   | 20.05                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 632068               | 633332                  | 634500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3494.98              | 3499.98                 | 3504.99               |                     |          |  |
| 80                | QPSK       | 1       | 1         | 20.04                | 20.02                   | 20.04                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 633332               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3445.01              | 3499.98                 | 3514.98               |                     |          |  |
| 70                | QPSK       | 1       | 1         | 20.05                | 19.98                   | 20.00                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 632003               | 633332                  | 634500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                 | 3499.98                 | 3519.99               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 20.05                | 20.07                   | 19.98                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 631166               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3478.02              | 3499.98                 | 3525.98               |                     |          |  |
| 50                | QPSK       | 1       | 1         | 20.05                | 20.04                   | 20.01                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 631134               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |  |
| 40                | QPSK       | 1       | 1         | 19.99                | 20.03                   | 20.03                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 637003               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485                 | 3499.98                 | 3534.99               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 20.06                | 20.03                   | 20.07                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 633068               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3468.02              | 3499.98                 | 3540                  |                     |          |  |
| 20                | QPSK       | 1       | 1         | 19.99                | 20.06                   | 20.03                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 636000               | 633332                  | 638166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.49               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 20.04                | 20.07                   | 20.04                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 635034               | 633332                  | 637332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |  |
| 10                | QPSK       | 1       | 1         | 19.99                | 20.06                   | 20.02                 | 21.0                | 0.0      |  |



| Part270_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000               |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                 |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                      | 20.17                   |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                      | 20.17                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                      | 20.07                   |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                      | 20.06                   |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        |                      | 20.13                   |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                      | 20.16                   |                       | 21.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                      | 20.07                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         |                      | 20.23                   |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       |                      | 20.13                   |                       | 21.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                      | 20.15                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         |                      | 20.17                   |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        |                      | 20.20                   |                       | 21.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                      | 20.10                   |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         |                      | 20.12                   |                       |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                      | 20.08                   |                       | 21.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                      | 20.10                   |                       | 21.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                      | 20.14                   |                       | 21.0                | 0.0      |  |
| Channel           |            |         |           | 649668               | 650000                  | 650332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2314.02              | 3750                    | 3764.98               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 20.14                | 20.13                   | 20.14                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 648234               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 7490.01              | 3750                    | 3769.99               |                     |          |  |
| 80                | QPSK       | 1       | 1         | 20.13                | 20.12                   | 20.17                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 649000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                | QPSK       | 1       | 1         | 20.16                | 20.18                   | 20.17                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 648668               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 20.18                | 20.21                   | 20.19                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 648334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3724.01              | 3750                    | 3774.99               |                     |          |  |
| 50                | QPSK       | 1       | 1         | 20.18                | 20.12                   | 20.19                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 649000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                | QPSK       | 1       | 1         | 20.12                | 20.21                   | 20.15                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 647166               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3764.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 20.16                | 20.21                   | 20.17                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3769.99               |                     |          |  |
| 20                | QPSK       | 1       | 1         | 20.21                | 20.12                   | 20.17                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 647166               | 650000                  | 652832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3762.48               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 20.13                | 20.16                   | 20.20                 | 21.0                | 0.0      |  |
| Channel           |            |         |           | 645000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745                 | 3750                    | 3765                  |                     |          |  |
| 10                | QPSK       | 1       | 1         | 20.18                | 20.20                   | 20.21                 | 21.0                | 0.0      |  |

| Part270Q_n78 HPUE_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 3469.98              |                         |                       |                     |          |  |
| Frequency (MHz)         |            |         |           | 633332               |                         |                       |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                      | 19.75                   |                       | 21.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       |                      | 19.86                   |                       |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                      | 19.89                   |                       |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                      | 19.97                   |                       | 21.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        |                      | 19.79                   |                       | 21.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                      | 19.90                   |                       | 21.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         |                      | 19.91                   |                       |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                      | 20.09                   |                       |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                      | 19.80                   |                       | 21.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                      | 19.84                   |                       |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                      | 19.93                   |                       |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                      | 20.00                   |                       | 21.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                      | 19.93                   |                       |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                      | 19.91                   |                       |                     |          |  |
| 100                     | 16QAM      | 1       | 1         |                      | 19.89                   |                       | 21.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                      | 19.90                   |                       | 21.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                      | 19.79                   |                       | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 632668               | 633332                  | 634000                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 20.01                | 20.05                   | 20.05                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 633402               | 3469.98                 | 3510                  |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 20.04                | 20.02                   | 20.04                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 632334               | 633332                  | 634332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465.01              | 3469.98                 | 3514.98               |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 20.05                | 19.98                   | 20.00                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460                 | 3469.98                 | 3519.98               |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 20.05                | 20.07                   | 19.98                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3474.02              | 3469.98                 | 3505                  |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 20.06                | 20.04                   | 20.01                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01              | 3469.98                 | 3504.98               |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 19.99                | 20.03                   | 20.03                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                 | 3469.98                 | 3534.99               |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 20.06                | 20.03                   | 20.07                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02              | 3469.98                 | 3540                  |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 19.99                | 20.06                   | 20.03                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 630300               | 633332                  | 636166                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5               | 3469.98                 | 3552.49               |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 20.04                | 20.07                   | 20.04                 | 21.0                | 0.0      |  |
| Channel                 |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3458.01              | 3469.98                 | 3544.98               |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 19.99                | 20.06                   | 20.02                 | 21.0                | 0.0      |  |

| Part270_Q_n78 HPUE_Ant 7 |            |         |           |                         |                            |                          |                        |             |  |
|--------------------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|--|
| BW (MHz)                 | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq | Power Middle<br>Ch. / Freq | Power High<br>Ch. / Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                  |            |         |           | 650000                  |                            |                          |                        |             |  |
| Frequency (MHz)          |            |         |           | 3750                    |                            |                          |                        |             |  |
| 100                      | PI2 BPSK   | 1       | 1         |                         | 20.17                      |                          | 21.0                   | 0.0         |  |
| 100                      | PI2 BPSK   | 1       | 137       |                         | 20.17                      |                          |                        |             |  |
| 100                      | PI2 BPSK   | 1       | 271       |                         | 20.07                      |                          |                        |             |  |
| 100                      | PI2 BPSK   | 135     | 0         |                         | 20.08                      |                          | 21.0                   | 0.0         |  |
| 100                      | PI2 BPSK   | 135     | 69        |                         | 20.13                      |                          | 21.0                   | 0.0         |  |
| 100                      | PI2 BPSK   | 135     | 138       |                         | 20.16                      |                          | 21.0                   | 0.0         |  |
| 100                      | PI2 BPSK   | 270     | 0         |                         | 20.07                      |                          |                        |             |  |
| 100                      | QPSK       | 1       | 1         |                         | 20.23                      |                          |                        |             |  |
| 100                      | QPSK       | 1       | 137       |                         | 20.13                      |                          | 21.0                   | 0.0         |  |
| 100                      | QPSK       | 1       | 271       |                         | 20.15                      |                          |                        |             |  |
| 100                      | QPSK       | 135     | 0         |                         | 20.17                      |                          |                        |             |  |
| 100                      | QPSK       | 135     | 69        |                         | 20.20                      |                          | 21.0                   | 0.0         |  |
| 100                      | QPSK       | 135     | 138       |                         | 20.10                      |                          |                        |             |  |
| 100                      | QPSK       | 270     | 0         |                         | 20.12                      |                          |                        |             |  |
| 100                      | 16QAM      | 1       | 1         |                         | 20.08                      |                          | 21.0                   | 0.0         |  |
| 100                      | 64QAM      | 1       | 1         |                         | 20.10                      |                          | 21.0                   | 0.0         |  |
| 100                      | 256QAM     | 1       | 1         |                         | 20.14                      |                          | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 649668                  | 650000                     | 650332                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 204402                  | 3750                       | 3784.98                  |                        |             |  |
| 90                       | QPSK       | 1       | 1         | 20.14                   | 20.13                      | 20.14                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 648334                  | 650000                     | 650666                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 274201                  | 3750                       | 3789.99                  |                        |             |  |
| 80                       | QPSK       | 1       | 1         | 20.13                   | 20.12                      | 20.17                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 649000                  | 650000                     | 651000                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3735                    | 3750                       | 3765                     |                        |             |  |
| 70                       | QPSK       | 1       | 1         | 20.16                   | 20.18                      | 20.17                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 648668                  | 650000                     | 651332                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3730.02                 | 3750                       | 3769.98                  |                        |             |  |
| 60                       | QPSK       | 1       | 1         | 20.18                   | 20.21                      | 20.19                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 648334                  | 650000                     | 651666                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3725.01                 | 3750                       | 3774.99                  |                        |             |  |
| 50                       | QPSK       | 1       | 1         | 20.16                   | 20.12                      | 20.19                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 648000                  | 650000                     | 650500                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3724                    | 3750                       | 3780                     |                        |             |  |
| 40                       | QPSK       | 1       | 1         | 20.12                   | 20.21                      | 20.15                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 647668                  | 650000                     | 652332                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3715.02                 | 3750                       | 3784.98                  |                        |             |  |
| 30                       | QPSK       | 1       | 1         | 20.18                   | 20.21                      | 20.17                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 647334                  | 650000                     | 652666                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3710.01                 | 3750                       | 3789.99                  |                        |             |  |
| 20                       | QPSK       | 1       | 1         | 20.21                   | 20.12                      | 20.17                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 647000                  | 650000                     | 653332                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3707.52                 | 3750                       | 3792.48                  |                        |             |  |
| 15                       | QPSK       | 1       | 1         | 20.13                   | 20.16                      | 20.20                    | 21.0                   | 0.0         |  |
| Channel                  |            |         |           | 647000                  | 650000                     | 653000                   | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)          |            |         |           | 3705                    | 3750                       | 3795                     |                        |             |  |
| 10                       | QPSK       | 1       | 1         | 20.18                   | 20.20                      | 20.21                    | 21.0                   | 0.0         |  |



| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 14.87                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       | 14.88                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       | 15.00                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        | 14.89                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       | 14.94                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         | 14.91                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 15.10                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       | 14.84                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 271       | 14.94                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.81                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 14.86                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       | 14.82                 |                          |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         | 14.91                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 14.84                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.93                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 14.92                 |                          |                        | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 15.02                 | 15.03                    | 15.02                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 15.00                 | 15.03                    | 15.04                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632214                | 633332                   | 634442                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 15.07                 | 15.02                    | 15.04                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3480                  | 3499.98                  | 3518.99                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 15.05                 | 15.04                    | 15.07                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 15.08                 | 15.01                    | 15.02                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 15.02                 | 15.02                    | 14.99                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3460.02               | 3499.98                  | 3534.99                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 15.06                 | 15.00                    | 15.04                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3450.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 15.07                 | 15.03                    | 14.99                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3451.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 15.01                 | 15.04                    | 15.07                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 15.06                 | 14.99                    | 15.00                  | 16.0                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 650000                |                          | 3750                   |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         | 14.98                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       | 15.07                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       | 15.00                 |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        | 15.02                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                | PI2 BPSK   | 270     | 0         | 15.01                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 1         | 15.13                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 1       | 137       | 15.05                 |                          |                        |                     |          |  |
| 100                | QPSK       | 1       | 271       | 14.98                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                | QPSK       | 135     | 69        | 15.10                 |                          |                        |                     |          |  |
| 100                | QPSK       | 135     | 138       | 15.09                 |                          |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         | 14.98                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         | 14.93                 |                          |                        | 16.0                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649666                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 15.05                 | 15.06                    | 15.05                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.05                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 15.04                 | 15.11                    | 15.11                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648666                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3743.02               | 3750                     | 3763.98                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.08                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3745.01               | 3750                     | 3774.98                |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 15.03                 | 15.10                    | 15.05                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3740                  | 3750                     | 3760                   |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.11                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647666                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3735.02               | 3750                     | 3764.98                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 15.10                 | 15.03                    | 15.04                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3730.01               | 3750                     | 3769.99                |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 15.07                 | 15.08                    | 15.04                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647166                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3707.52               | 3750                     | 3762.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 15.02                 | 15.08                    | 15.07                  | 16.0                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647000                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3705                  | 3750                     | 3765                   |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 15.06                 | 15.02                    | 15.11                  | 16.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 14.87                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       | 14.88                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 15.00                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 14.89                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       | 14.84                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         | 14.91                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 15.10                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 14.84                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 14.84                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 14.81                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 14.88                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 14.82                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         | 14.81                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         | 14.84                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 14.83                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 14.92                 |                          |                        | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633300                | 633332                   | 633668                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                      | QPSK       | 1       | 1         | 15.02                 | 15.03                    | 15.02                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633668                | 633332                   | 634000                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3499.02               | 3499.98                  | 3501                   | Tune-up limit (dBm) | MPR (dB) |  |
| 80                      | QPSK       | 1       | 1         | 15.02                 | 15.03                    | 15.04                  | 16.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 633234                | 633332                   | 633432                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 70                      | QPSK       | 1       | 1         | 15.07                 | 15.02                    | 15.04                  | 16.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                      | QPSK       | 1       | 1         | 15.00                 | 15.04                    | 15.07                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633168                | 633332                   | 633500                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3479.02               | 3499.98                  | 3505                   | Tune-up limit (dBm) | MPR (dB) |  |
| 50                      | QPSK       | 1       | 1         | 15.02                 | 15.01                    | 15.02                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633134                | 633332                   | 633532                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3509.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 40                      | QPSK       | 1       | 1         | 15.02                 | 15.02                    | 14.99                  | 16.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 632100                | 633332                   | 634560                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485                  | 3499.98                  | 3504.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 30                      | QPSK       | 1       | 1         | 15.06                 | 15.00                    | 15.04                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633668                | 633332                   | 633600                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3500                   | Tune-up limit (dBm) | MPR (dB) |  |
| 20                      | QPSK       | 1       | 1         | 15.02                 | 15.03                    | 14.99                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633668                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3451.94               | 3499.98                  | 3502.49                | Tune-up limit (dBm) | MPR (dB) |  |
| 15                      | QPSK       | 1       | 1         | 15.07                 | 15.04                    | 15.07                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           | 633532                | 633332                   | 633632                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3504.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 10                      | QPSK       | 1       | 1         | 15.06                 | 14.99                    | 15.00                  | 16.0                | 0.0      |  |



| Part270_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 14.98                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       | 15.07                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 15.00                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 15.02                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         | 15.01                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 15.13                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 15.05                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 14.98                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 14.97                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 15.10                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 15.09                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         | 14.98                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 14.93                 |                          |                        | 16.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 14.97                 |                          |                        | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 15.05                 | 15.06                    | 15.05                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.05                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 15.04                 | 15.11                    | 15.11                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.08                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 15.03                 | 15.10                    | 15.05                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 15.04                 | 15.07                    | 15.11                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 15.10                 | 15.03                    | 15.04                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 15.07                 | 15.06                    | 15.04                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 15.02                 | 15.08                    | 15.07                  | 16.0                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 15.06                 | 15.02                    | 15.11                  | 16.0                | 0.0      |  |

| Part27Q_n78_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 18.67                |                         |                       | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 18.62                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 18.73                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 18.69                |                         |                       | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 18.70                |                         |                       | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 18.69                |                         |                       | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 18.65                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         | 18.81                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 18.70                |                         |                       | 19.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 18.72                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         | 18.66                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        | 18.76                |                         |                       | 19.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 18.61                |                         |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 18.69                |                         |                       |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 18.68                |                         |                       | 19.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 18.78                |                         |                       | 19.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 18.66                |                         |                       | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 90                | QPSK       | 1       | 1         | 18.74                | 18.70                   | 18.72                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 80                | QPSK       | 1       | 1         | 18.74                | 18.79                   | 18.73                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 70                | QPSK       | 1       | 1         | 18.71                | 18.76                   | 18.70                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 60                | QPSK       | 1       | 1         | 18.76                | 18.71                   | 18.71                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 50                | QPSK       | 1       | 1         | 18.70                | 18.71                   | 18.79                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 40                | QPSK       | 1       | 1         | 18.74                | 18.70                   | 18.77                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 30                | QPSK       | 1       | 1         | 18.74                | 18.79                   | 18.79                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 20                | QPSK       | 1       | 1         | 18.71                | 18.76                   | 18.77                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 15                | QPSK       | 1       | 1         | 18.78                | 18.77                   | 18.70                 | 19.5                | 0.0      |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |  |
| 10                | QPSK       | 1       | 1         | 18.75                | 18.73                   | 18.75                 | 19.5                | 0.0      |  |

| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 18.71                 |                          |                        | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 18.77                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 18.76                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 18.69                 |                          |                        | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 18.75                 |                          |                        | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 18.76                 |                          |                        | 19.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 18.76                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         | 18.80                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 18.62                 |                          |                        | 19.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 18.75                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 18.70                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 18.76                 |                          |                        | 19.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 18.77                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 18.67                 |                          |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 18.70                 |                          |                        | 19.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 18.62                 |                          |                        | 19.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 18.71                 |                          |                        | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 18.69                 | 18.72                    | 18.75                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 18.78                 | 18.72                    | 18.69                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 18.70                 | 18.75                    | 18.77                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 18.77                 | 18.72                    | 18.75                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 18.69                 | 18.72                    | 18.70                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 18.76                 | 18.78                    | 18.78                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 18.69                 | 18.76                    | 18.73                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 18.69                 | 18.76                    | 18.73                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 18.75                 | 18.71                    | 18.71                  | 19.5                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 18.70                 | 18.75                    | 18.69                  | 19.5                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 8 |            |         |           |                             |                                |                              |                        |             |     |
|------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel                |            |         |           | 633332                      |                                | 3499.98                      |                        |             |     |
| Frequency (MHz)        |            |         |           | 18.67                       |                                |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                             | 18.67                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                             | 18.62                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                             | 18.73                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                             | 18.69                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                             | 18.70                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                             | 18.69                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                             | 18.66                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 1       | 1         |                             | 18.81                          |                              |                        |             |     |
| 100                    | QPSK       | 1       | 137       |                             | 18.70                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 1       | 271       |                             | 18.72                          |                              |                        |             |     |
| 100                    | QPSK       | 135     | 0         |                             | 18.86                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 135     | 69        |                             | 18.76                          |                              |                        |             |     |
| 100                    | QPSK       | 135     | 138       |                             | 18.81                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 270     | 0         |                             | 18.69                          |                              |                        |             |     |
| 100                    | 16QAM      | 1       | 1         |                             | 18.88                          |                              | 19.5                   | 0.0         |     |
| 100                    | 64QAM      | 1       | 1         |                             | 18.78                          |                              | 19.5                   | 0.0         |     |
| 100                    | 256QAM     | 1       | 1         |                             | 18.66                          |                              | 19.5                   | 0.0         |     |
| Channel                |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |     |
| 90                     | QPSK       | 1       | 1         |                             | 18.74                          | 18.70                        | 18.72                  | 19.5        | 0.0 |
| Channel                |            |         |           | 632668                      | 633332                         | 634000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3490.02                     | 3499.98                        | 3500                         |                        |             |     |
| 80                     | QPSK       | 1       | 1         |                             | 18.74                          | 18.79                        | 18.73                  | 19.5        | 0.0 |
| Channel                |            |         |           | 632234                      | 633332                         | 634332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |     |
| 70                     | QPSK       | 1       | 1         |                             | 18.71                          | 18.76                        | 18.70                  | 19.5        | 0.0 |
| Channel                |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3480                        | 3499.98                        | 3516.98                      |                        |             |     |
| 60                     | QPSK       | 1       | 1         |                             | 18.76                          | 18.71                        | 18.71                  | 19.5        | 0.0 |
| Channel                |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3475.02                     | 3499.98                        | 3505                         |                        |             |     |
| 50                     | QPSK       | 1       | 1         |                             | 18.70                          | 18.71                        | 18.79                  | 19.5        | 0.0 |
| Channel                |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3470.01                     | 3499.98                        | 3509.98                      |                        |             |     |
| 40                     | QPSK       | 1       | 1         |                             | 18.74                          | 18.70                        | 18.77                  | 19.5        | 0.0 |
| Channel                |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3465                        | 3499.98                        | 3504.99                      |                        |             |     |
| 30                     | QPSK       | 1       | 1         |                             | 18.74                          | 18.79                        | 18.79                  | 19.5        | 0.0 |
| Channel                |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3460.02                     | 3499.98                        | 3500                         |                        |             |     |
| 20                     | QPSK       | 1       | 1         |                             | 18.71                          | 18.78                        | 18.77                  | 19.5        | 0.0 |
| Channel                |            |         |           | 630330                      | 633332                         | 636332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3457.5                      | 3499.98                        | 3502.49                      |                        |             |     |
| 15                     | QPSK       | 1       | 1         |                             | 18.76                          | 18.77                        | 18.70                  | 19.5        | 0.0 |
| Channel                |            |         |           | 630000                      | 633332                         | 636666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3453.01                     | 3499.98                        | 3504.98                      |                        |             |     |
| 10                     | QPSK       | 1       | 1         |                             | 18.75                          | 18.73                        | 18.75                  | 19.5        | 0.0 |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                             |                                |                              |                        |             |     |
|------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|-----|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel                |            |         |           | 690000                      |                                | 3750                         |                        |             |     |
| Frequency (MHz)        |            |         |           | 18.71                       |                                |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 1       | 1         |                             | 18.71                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 1       | 137       |                             | 18.77                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 1       | 271       |                             | 18.75                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 135     | 0         |                             | 18.69                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 135     | 69        |                             | 18.75                          |                              | 19.5                   | 0.0         |     |
| 100                    | Pl2 BPSK   | 135     | 138       |                             | 18.76                          |                              |                        |             |     |
| 100                    | Pl2 BPSK   | 270     | 0         |                             | 18.76                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 1       | 1         |                             | 18.80                          |                              |                        |             |     |
| 100                    | QPSK       | 1       | 137       |                             | 18.62                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 1       | 271       |                             | 18.75                          |                              |                        |             |     |
| 100                    | QPSK       | 135     | 0         |                             | 18.70                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 135     | 69        |                             | 18.76                          |                              |                        |             |     |
| 100                    | QPSK       | 135     | 138       |                             | 18.77                          |                              | 19.5                   | 0.0         |     |
| 100                    | QPSK       | 270     | 0         |                             | 18.67                          |                              |                        |             |     |
| 100                    | 16QAM      | 1       | 1         |                             | 18.70                          |                              | 19.5                   | 0.0         |     |
| 100                    | 64QAM      | 1       | 1         |                             | 18.62                          |                              | 19.5                   | 0.0         |     |
| 100                    | 256QAM     | 1       | 1         |                             | 18.71                          |                              | 19.5                   | 0.0         |     |
| Channel                |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3743.02                     | 3750                           | 3754.98                      |                        |             |     |
| 90                     | QPSK       | 1       | 1         |                             | 18.69                          | 18.72                        | 18.75                  | 19.5        | 0.0 |
| Channel                |            |         |           | 648334                      | 650000                         | 650666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3740.01                     | 3750                           | 3759.98                      |                        |             |     |
| 80                     | QPSK       | 1       | 1         |                             | 18.78                          | 18.72                        | 18.69                  | 19.5        | 0.0 |
| Channel                |            |         |           | 648000                      | 650000                         | 651000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3735                        | 3750                           | 3765                         |                        |             |     |
| 70                     | QPSK       | 1       | 1         |                             | 18.70                          | 18.75                        | 18.77                  | 19.5        | 0.0 |
| Channel                |            |         |           | 646668                      | 650000                         | 651332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3730.02                     | 3750                           | 3769.98                      |                        |             |     |
| 60                     | QPSK       | 1       | 1         |                             | 18.77                          | 18.72                        | 18.75                  | 19.5        | 0.0 |
| Channel                |            |         |           | 646334                      | 650000                         | 651666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3725.01                     | 3750                           | 3774.98                      |                        |             |     |
| 50                     | QPSK       | 1       | 1         |                             | 18.69                          | 18.72                        | 18.78                  | 19.5        | 0.0 |
| Channel                |            |         |           | 646000                      | 650000                         | 652000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3720                        | 3750                           | 3780                         |                        |             |     |
| 40                     | QPSK       | 1       | 1         |                             | 18.76                          | 18.78                        | 18.78                  | 19.5        | 0.0 |
| Channel                |            |         |           | 645668                      | 650000                         | 652332                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3715.02                     | 3750                           | 3784.98                      |                        |             |     |
| 30                     | QPSK       | 1       | 1         |                             | 18.69                          | 18.76                        | 18.75                  | 19.5        | 0.0 |
| Channel                |            |         |           | 647334                      | 650000                         | 652666                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3710.01                     | 3750                           | 3789.98                      |                        |             |     |
| 20                     | QPSK       | 1       | 1         |                             | 18.69                          | 18.76                        | 18.73                  | 19.5        | 0.0 |
| Channel                |            |         |           | 647000                      | 650000                         | 652932                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3707.52                     | 3750                           | 3792.48                      |                        |             |     |
| 15                     | QPSK       | 1       | 1         |                             | 18.75                          | 18.71                        | 18.71                  | 19.5        | 0.0 |
| Channel                |            |         |           | 646668                      | 650000                         | 653000                       | Tune-up limit (dBm)    | MPR (dB)    |     |
| Frequency (MHz)        |            |         |           | 3705                        | 3750                           | 3795                         |                        |             |     |
| 10                     | QPSK       | 1       | 1         |                             | 18.70                          | 18.75                        | 18.69                  | 19.5        | 0.0 |



| Band 2_Ant 0    |            |         |           |             |             |             |             |                 |           |  |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|-------------|-----------------|-----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Time-slot (dBm) | MPSR (dB) |  |
| Channel         |            |         |           | 18700       | 18900       | 19100       |             |                 |           |  |
| Frequency (MHz) |            |         |           |             |             |             |             |                 |           |  |
| 20              | QPSK       | 1       | 0         | 15.15       | 15.14       | 15.08       |             | 16.4            | 0         |  |
| 20              | QPSK       | 1       | 49        | 15.15       | 15.14       | 15.08       |             |                 |           |  |
| 20              | QPSK       | 1       | 99        | 15.08       | 15.19       | 15.08       |             |                 |           |  |
| 20              | QPSK       | 50      | 24        | 15.07       | 15.10       | 15.12       |             | 16.4            | 0         |  |
| 20              | QPSK       | 50      | 50        | 15.11       | 15.19       | 15.08       |             |                 |           |  |
| 20              | QPSK       | 100     | 0         | 15.22       | 15.20       | 15.23       |             |                 |           |  |
| 20              | QPSK       | 100     | 24        | 15.22       | 15.20       | 15.23       |             |                 |           |  |
| 20              | QPSK       | 100     | 50        | 15.14       | 15.23       | 15.12       |             | 16.4            | 0         |  |
| 20              | QPSK       | 1       | 99        | 15.13       | 15.31       | 15.12       |             |                 |           |  |
| 20              | QPSK       | 50      | 0         | 15.17       | 15.25       | 15.19       |             | 16.4            | 0         |  |
| 20              | QPSK       | 50      | 24        | 15.20       | 15.24       | 15.19       |             |                 |           |  |
| 20              | QPSK       | 50      | 50        | 15.20       | 15.24       | 15.17       |             |                 |           |  |
| 20              | QPSK       | 100     | 0         | 15.10       | 15.30       | 15.14       |             |                 |           |  |
| 20              | QPSK       | 1       | 0         | 15.19       | 15.17       | 15.31       |             | 16.4            | 0         |  |
| 20              | QPSK       | 1       | 49        | 15.17       | 15.25       | 15.19       |             |                 |           |  |
| 20              | QPSK       | 1       | 99        | 15.23       | 15.30       | 15.20       |             |                 |           |  |
| 20              | QPSK       | 50      | 0         | 15.16       | 15.32       | 15.22       |             |                 |           |  |
| 20              | QPSK       | 50      | 24        | 15.20       | 15.24       | 15.19       |             | 16.4            | 0         |  |
| 20              | QPSK       | 50      | 50        | 15.20       | 15.24       | 15.17       |             |                 |           |  |
| 20              | QPSK       | 100     | 0         | 15.14       | 15.26       | 15.22       |             |                 |           |  |
| Channel         |            |         |           | 18875       | 18900       | 19150       |             |                 |           |  |
| Frequency (MHz) |            |         |           |             |             |             |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.03       | 15.03       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.14       | 15.09       | 15.14       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.06       | 15.10       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.03       | 15.26       | 15.11       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 14.99       | 15.26       | 15.22       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.01       | 15.14       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.12       | 15.19       | 15.21       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.09       | 15.27       | 15.07       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.09       | 15.27       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.10       | 15.29       | 15.04       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.02       | 15.27       | 15.08       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.17       | 15.20       | 15.20       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.05       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 0         | 15.17       | 15.23       | 14.97       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.15       | 15.13       | 15.10       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.01       | 15.24       | 15.16       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             |                 |           |  |
| 15              | QPSK       | 36      | 39        | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 75      | 0         | 15.14       | 15.10       | 15.19       |             | 16.4            | 0         |  |
| 15              | QPSK       | 1       | 0         | 15.14       | 15.10       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 37        | 15.15       | 15.12       | 15.19       |             |                 |           |  |
| 15              | QPSK       | 1       | 74        | 15.12       | 15.21       | 15.12       |             |                 |           |  |
| 15              | QPSK       | 36      | 0         | 15.07       | 15.19       | 15.08       |             |                 |           |  |
| 15              | QPSK       | 36      | 24        | 15.12       | 15.20       | 15.15       |             | 16.4            | 0         |  |
| 15              | QPSK       | 36      | 39        | 15.11       | 15.16       | 15.07       |             |                 |           |  |



| Band 4_Ant 1         |            |         |           |                      |                      |                      |                    |          |  |
|----------------------|------------|---------|-----------|----------------------|----------------------|----------------------|--------------------|----------|--|
| BW (MHz)             | Modulation | RB Size | RB Offset | Power Line Ch / Freq | Power Line Ch / Freq | Power Line Ch / Freq | Time-up time (dBm) | MPE (dB) |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 20000 20175 20350    |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 20                   | QPSK       | 1       | 0         | 15.14                | 15.34                | 15.21                | 16.5               | 0        |  |
| 20                   | QPSK       | 1       | 49        | 15.07                | 15.20                | 15.22                |                    |          |  |
| 20                   | QPSK       | 50      | 0         | 15.20                | 15.42                | 15.30                | 16.5               | 0        |  |
| 20                   | QPSK       | 50      | 24        | 15.15                | 15.19                | 15.27                |                    |          |  |
| 20                   | QPSK       | 100     | 0         | 15.23                | 15.41                | 15.39                | 16.5               | 0        |  |
| 20                   | HQAM       | 1       | 0         | 15.20                | 15.20                | 15.20                |                    |          |  |
| 20                   | HQAM       | 1       | 49        | 15.10                | 15.20                | 15.25                | 16.5               | 0        |  |
| 20                   | HQAM       | 50      | 0         | 15.15                | 15.20                | 15.20                |                    |          |  |
| 20                   | HQAM       | 50      | 24        | 15.06                | 15.24                | 15.27                | 16.5               | 0        |  |
| 20                   | HQAM       | 100     | 0         | 15.15                | 15.22                | 15.20                |                    |          |  |
| 20                   | HQAM       | 1       | 0         | 15.15                | 15.20                | 15.24                | 16.5               | 0        |  |
| 20                   | HQAM       | 1       | 49        | 15.06                | 15.33                | 15.30                |                    |          |  |
| 20                   | HQAM       | 1       | 99        | 15.03                | 15.25                | 15.41                |                    |          |  |
| 20                   | HQAM       | 50      | 0         | 15.17                | 15.30                | 15.31                |                    |          |  |
| 20                   | HQAM       | 50      | 24        | 15.05                | 15.28                | 15.37                | 16.5               | 0        |  |
| 20                   | HQAM       | 50      | 50        | 15.15                | 15.30                | 15.29                |                    |          |  |
| 20                   | HQAM       | 100     | 0         | 15.28                | 15.20                | 15.38                |                    |          |  |
| 20                   | 25QAM      | 1       | 0         | 15.13                | 15.20                | 15.44                | 16.5               | 0        |  |
| 20                   | 25QAM      | 1       | 49        | 15.14                | 15.30                | 15.25                |                    |          |  |
| 20                   | 25QAM      | 1       | 99        | 15.18                | 15.34                | 15.40                |                    |          |  |
| 20                   | 25QAM      | 50      | 0         | 15.13                | 15.35                | 15.26                |                    |          |  |
| 20                   | 25QAM      | 50      | 24        | 15.10                | 15.24                | 15.38                | 16.5               | 0        |  |
| 20                   | 25QAM      | 50      | 50        | 15.21                | 15.38                | 15.44                |                    |          |  |
| 20                   | 25QAM      | 100     | 0         | 15.20                | 15.30                | 15.33                |                    |          |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 1717.5 1732.5 1747.5 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 15                   | QPSK       | 1       | 0         | 15.09                | 15.25                | 15.12                | 16.5               | 0        |  |
| 15                   | QPSK       | 1       | 37        | 15.12                | 15.41                | 15.31                |                    |          |  |
| 15                   | QPSK       | 1       | 74        | 15.03                | 15.09                | 15.11                |                    |          |  |
| 15                   | QPSK       | 36      | 0         | 15.15                | 15.34                | 15.30                | 16.5               | 0        |  |
| 15                   | QPSK       | 36      | 24        | 15.12                | 15.34                | 15.32                |                    |          |  |
| 15                   | QPSK       | 36      | 39        | 15.12                | 15.11                | 15.21                |                    |          |  |
| 15                   | QPSK       | 75      | 0         | 15.12                | 15.37                | 15.27                | 16.5               | 0        |  |
| 15                   | HQAM       | 1       | 0         | 15.09                | 15.10                | 15.25                |                    |          |  |
| 15                   | HQAM       | 1       | 37        | 15.01                | 15.24                | 15.18                | 16.5               | 0        |  |
| 15                   | HQAM       | 1       | 74        | 14.88                | 15.30                | 15.23                |                    |          |  |
| 15                   | HQAM       | 36      | 0         | 15.13                | 15.20                | 15.32                |                    |          |  |
| 15                   | HQAM       | 36      | 20        | 15.00                | 15.20                | 15.30                | 16.5               | 0        |  |
| 15                   | HQAM       | 36      | 39        | 15.20                | 15.18                | 15.23                |                    |          |  |
| 15                   | HQAM       | 75      | 0         | 15.07                | 15.10                | 15.14                |                    |          |  |
| 15                   | HQAM       | 1       | 0         | 15.05                | 15.22                | 15.29                |                    |          |  |
| 15                   | HQAM       | 1       | 37        | 14.65                | 15.26                | 15.28                | 16.5               | 0        |  |
| 15                   | HQAM       | 1       | 74        | 14.89                | 15.15                | 15.37                |                    |          |  |
| 15                   | HQAM       | 36      | 0         | 15.11                | 15.29                | 15.24                |                    |          |  |
| 15                   | HQAM       | 36      | 20        | 14.65                | 15.28                | 15.30                | 16.5               | 0        |  |
| 15                   | HQAM       | 36      | 39        | 15.08                | 15.27                | 15.37                |                    |          |  |
| 15                   | 25QAM      | 1       | 0         | 15.20                | 15.20                | 15.38                | 16.5               | 0        |  |
| 15                   | 25QAM      | 1       | 37        | 15.08                | 15.23                | 15.27                |                    |          |  |
| 15                   | 25QAM      | 1       | 74        | 15.12                | 15.28                | 15.36                |                    |          |  |
| 15                   | 25QAM      | 36      | 0         | 15.04                | 15.26                | 15.38                |                    |          |  |
| 15                   | 25QAM      | 36      | 20        | 15.08                | 15.22                | 15.30                | 16.5               | 0        |  |
| 15                   | 25QAM      | 36      | 39        | 15.19                | 15.29                | 15.45                |                    |          |  |
| 15                   | 25QAM      | 75      | 0         | 15.14                | 15.27                | 15.31                |                    |          |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 1715 1732.5 1750     |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 10                   | QPSK       | 1       | 0         | 15.08                | 15.24                | 15.14                | 16.5               | 0        |  |
| 10                   | QPSK       | 1       | 25        | 15.10                | 15.43                | 15.38                |                    |          |  |
| 10                   | QPSK       | 1       | 49        | 14.97                | 15.08                | 15.15                |                    |          |  |
| 10                   | QPSK       | 25      | 0         | 15.13                | 15.32                | 15.28                | 16.5               | 0        |  |
| 10                   | QPSK       | 25      | 24        | 15.07                | 15.34                | 15.30                |                    |          |  |
| 10                   | QPSK       | 25      | 25        | 15.03                | 15.17                | 15.22                |                    |          |  |
| 10                   | QPSK       | 50      | 0         | 15.18                | 15.35                | 15.36                | 16.5               | 0        |  |
| 10                   | HQAM       | 1       | 0         | 15.09                | 15.10                | 15.25                |                    |          |  |
| 10                   | HQAM       | 1       | 25        | 15.00                | 15.19                | 15.14                | 16.5               | 0        |  |
| 10                   | HQAM       | 1       | 49        | 15.08                | 15.38                | 15.27                |                    |          |  |
| 10                   | HQAM       | 25      | 0         | 15.04                | 15.24                | 15.29                |                    |          |  |
| 10                   | HQAM       | 25      | 12        | 15.01                | 15.25                | 15.35                | 16.5               | 0        |  |
| 10                   | HQAM       | 25      | 25        | 15.15                | 15.15                | 15.24                |                    |          |  |
| 10                   | HQAM       | 50      | 0         | 15.15                | 15.42                | 15.37                |                    |          |  |
| 10                   | HQAM       | 1       | 0         | 15.13                | 15.20                | 15.32                |                    |          |  |
| 10                   | HQAM       | 1       | 25        | 15.01                | 15.22                | 15.18                | 16.5               | 0        |  |
| 10                   | HQAM       | 1       | 49        | 14.88                | 15.15                | 15.31                |                    |          |  |
| 10                   | HQAM       | 25      | 0         | 15.07                | 15.25                | 15.22                |                    |          |  |
| 10                   | HQAM       | 25      | 12        | 14.86                | 15.22                | 15.33                | 16.5               | 0        |  |
| 10                   | HQAM       | 25      | 25        | 15.04                | 15.32                | 15.27                |                    |          |  |
| 10                   | HQAM       | 50      | 0         | 15.18                | 15.17                | 15.32                |                    |          |  |
| 10                   | 25QAM      | 1       | 0         | 15.09                | 15.17                | 15.35                | 16.5               | 0        |  |
| 10                   | 25QAM      | 1       | 25        | 15.17                | 15.19                | 15.15                |                    |          |  |
| 10                   | 25QAM      | 1       | 49        | 15.10                | 15.31                | 15.39                |                    |          |  |
| 10                   | 25QAM      | 25      | 0         | 15.10                | 15.25                | 15.22                |                    |          |  |
| 10                   | 25QAM      | 25      | 12        | 15.02                | 15.13                | 15.24                | 16.5               | 0        |  |
| 10                   | 25QAM      | 25      | 25        | 15.18                | 15.23                | 15.38                |                    |          |  |
| 10                   | 25QAM      | 50      | 0         | 15.05                | 15.25                | 15.24                |                    |          |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 1712.5 1732.5 1752.5 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 5                    | QPSK       | 1       | 0         | 15.03                | 15.30                | 15.18                | 16.5               | 0        |  |
| 5                    | QPSK       | 1       | 12        | 15.11                | 15.41                | 15.24                |                    |          |  |
| 5                    | QPSK       | 1       | 24        | 15.02                | 15.16                | 15.11                |                    |          |  |
| 5                    | QPSK       | 12      | 0         | 15.22                | 15.35                | 15.35                | 16.5               | 0        |  |
| 5                    | QPSK       | 12      | 7         | 15.09                | 15.29                | 15.30                |                    |          |  |
| 5                    | QPSK       | 12      | 13        | 15.04                | 15.09                | 15.16                |                    |          |  |
| 5                    | QPSK       | 25      | 0         | 15.15                | 15.35                | 15.31                | 16.5               | 0        |  |
| 5                    | HQAM       | 1       | 0         | 15.11                | 15.28                | 15.32                |                    |          |  |
| 5                    | HQAM       | 1       | 12        | 15.01                | 15.18                | 15.21                | 16.5               | 0        |  |
| 5                    | HQAM       | 1       | 24        | 14.91                | 15.31                | 15.26                |                    |          |  |
| 5                    | HQAM       | 12      | 0         | 15.13                | 15.28                | 15.25                |                    |          |  |
| 5                    | HQAM       | 12      | 7         | 15.08                | 15.23                | 15.31                | 16.5               | 0        |  |
| 5                    | HQAM       | 12      | 13        | 15.20                | 15.14                | 15.27                |                    |          |  |
| 5                    | HQAM       | 25      | 0         | 15.04                | 15.15                | 15.34                |                    |          |  |
| 5                    | HQAM       | 1       | 0         | 15.10                | 15.23                | 15.30                |                    |          |  |
| 5                    | HQAM       | 1       | 12        | 14.85                | 15.23                | 15.19                | 16.5               | 0        |  |
| 5                    | HQAM       | 1       | 24        | 14.82                | 15.20                | 15.33                |                    |          |  |
| 5                    | HQAM       | 12      | 0         | 15.08                | 15.30                | 15.25                |                    |          |  |
| 5                    | HQAM       | 12      | 7         | 15.03                | 15.25                | 15.33                | 16.5               | 0        |  |
| 5                    | HQAM       | 12      | 13        | 15.15                | 15.32                | 15.31                |                    |          |  |
| 5                    | HQAM       | 25      | 0         | 15.10                | 15.12                | 15.32                |                    |          |  |
| 5                    | 25QAM      | 1       | 0         | 15.03                | 15.26                | 15.37                | 16.5               | 0        |  |
| 5                    | 25QAM      | 1       | 12        | 15.13                | 15.12                | 15.15                |                    |          |  |
| 5                    | 25QAM      | 1       | 24        | 15.11                | 15.31                | 15.38                |                    |          |  |
| 5                    | 25QAM      | 12      | 0         | 15.05                | 15.29                | 15.18                |                    |          |  |
| 5                    | 25QAM      | 12      | 7         | 15.02                | 15.17                | 15.27                | 16.5               | 0        |  |
| 5                    | 25QAM      | 12      | 13        | 15.12                | 15.24                | 15.37                |                    |          |  |
| 5                    | 25QAM      | 25      | 0         | 15.12                | 15.25                | 15.31                |                    |          |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 1711.5 1732.5 1754.3 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 3                    | QPSK       | 1       | 0         | 15.03                | 15.29                | 15.11                | 16.5               | 0        |  |
| 3                    | QPSK       | 1       | 8         | 15.10                | 15.41                | 15.24                |                    |          |  |
| 3                    | QPSK       | 1       | 14        | 14.98                | 15.08                | 15.15                |                    |          |  |
| 3                    | QPSK       | 8       | 0         | 15.17                | 15.38                | 15.32                | 16.5               | 0        |  |
| 3                    | QPSK       | 8       | 4         | 15.08                | 15.28                | 15.28                |                    |          |  |
| 3                    | QPSK       | 8       | 7         | 15.09                | 15.17                | 15.15                |                    |          |  |
| 3                    | QPSK       | 15      | 0         | 15.13                | 15.30                | 15.33                | 16.5               | 0        |  |
| 3                    | HQAM       | 1       | 0         | 15.13                | 15.28                | 15.33                |                    |          |  |
| 3                    | HQAM       | 1       | 8         | 15.05                | 15.21                | 15.21                | 16.5               | 0        |  |
| 3                    | HQAM       | 1       | 14        | 14.88                | 15.38                | 15.29                |                    |          |  |
| 3                    | HQAM       | 8       | 0         | 15.05                | 15.28                | 15.35                |                    |          |  |
| 3                    | HQAM       | 8       | 4         | 15.00                | 15.26                | 15.34                | 16.5               | 0        |  |
| 3                    | HQAM       | 15      | 0         | 15.10                | 15.20                | 15.25                |                    |          |  |
| 3                    | HQAM       | 1       | 0         | 15.01                | 15.28                | 15.28                | 16.5               | 0        |  |
| 3                    | HQAM       | 1       | 14        | 14.87                | 15.10                | 15.30                |                    |          |  |
| 3                    | HQAM       | 8       | 0         | 15.10                | 15.30                | 15.22                |                    |          |  |
| 3                    | HQAM       | 8       | 4         | 14.94                | 15.16                | 15.25                | 16.5               | 0        |  |
| 3                    | HQAM       | 8       | 7         | 15.11                | 15.24                | 15.32                |                    |          |  |
| 3                    | HQAM       | 15      | 0         | 15.17                | 15.12                | 15.33                |                    |          |  |
| 3                    | 25QAM      | 1       | 0         | 15.02                | 15.22                | 15.38                | 16.5               | 0        |  |
| 3                    | 25QAM      | 1       | 8         | 15.08                | 15.20                | 15.33                |                    |          |  |
| 3                    | 25QAM      | 1       | 14        | 15.12                | 15.27                | 15.38                |                    |          |  |
| 3                    | 25QAM      | 8       | 0         | 15.03                | 15.24                | 15.31                |                    |          |  |
| 3                    | 25QAM      | 8       | 4         | 14.99                | 15.13                | 15.24                | 16.5               | 0        |  |
| 3                    | 25QAM      | 8       | 7         | 15.10                | 15.28                | 15.39                |                    |          |  |
| 3                    | 25QAM      | 15      | 0         | 15.17                | 15.32                | 15.31                |                    |          |  |
| Channel              |            |         |           |                      |                      |                      |                    |          |  |
| 1710.7 1732.5 1754.3 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)      |            |         |           |                      |                      |                      |                    |          |  |
| 1.4                  | QPSK       | 1       | 0         | 15.07                | 15.30                |                      |                    |          |  |
| 1.4                  | QPSK       | 1       | 5         | 14.98                | 15.15                | 15.13                | 16.5               | 0        |  |
| 1.4                  | QPSK       | 1       | 10        | 15.00                | 15.16                | 15.16                |                    |          |  |
| 1.4                  | QPSK       | 3       | 1         | 15.10                | 15.21                | 15.23                |                    |          |  |
| 1.4                  | QPSK       | 3       | 3         | 15.07                | 15.16                | 15.19                | 16.5               | 0        |  |
| 1.4                  | QPSK       | 3       | 11        | 15.04                | 15.18                | 15.25                |                    |          |  |
| 1.4                  | HQAM       | 1       | 0         | 15.10                | 15.20                | 15.20                |                    |          |  |
| 1.4                  | HQAM       | 1       | 3         | 15.08                | 15.22                | 15.17                | 16.5               | 0        |  |
| 1.4                  | HQAM       | 1       | 6         | 15.05                | 15.25                | 15.25                |                    |          |  |
| 1.4                  | HQAM       | 3       | 0         | 15.09                | 15.28                | 15.29                |                    |          |  |
| 1.4                  | HQAM       | 3       | 1         | 15.05                | 15.29                | 15.32                | 16.5               | 0        |  |
| 1.4                  | HQAM       | 3       | 4         | 15.02                | 15.26                | 15.37                |                    |          |  |
| 1.4                  | HQAM       | 6       | 0         | 15.13                | 15.13                | 15.14                | 16.5               | 0        |  |
| 1.4                  | HQAM       | 1       | 0         | 15.03                | 15.29                | 15.25                |                    |          |  |
| 1.4                  | HQAM       | 1       | 3         | 15.05                | 15.29                | 15.30                | 16.5               | 0        |  |
| 1.4                  | HQAM       | 1       | 5         | 14.91                | 15.17                | 15.36                |                    |          |  |
| 1.4                  | HQAM       | 3       | 0         | 15.15                | 15.21                | 15.28                |                    |          |  |
| 1.4                  | HQAM       | 3       | 3         | 15.07                | 15.25                | 15.35                | 16.5               | 0        |  |
| 1.4                  | HQAM       | 3       | 3         | 15.07                | 15.29                | 15.32                |                    |          |  |
| 1.4                  | 25QAM      | 1       | 0         | 15.20                | 15.10                | 15.28                | 16.5               | 0        |  |
| 1.4                  | 25QAM      | 1       | 3         | 15.11                | 15.28                | 15.14                |                    |          |  |
| 1.4                  | 25QAM      | 1       | 3         | 15.11                | 15.27                | 15.36                |                    |          |  |
| 1.4                  | 25QAM      | 3       | 0         | 15.08                | 15.24                | 15.34                | 16.5               | 0        |  |
| 1.4                  | 25QAM      | 3       | 3         | 15.14                | 15.32                | 15.30                |                    |          |  |
| 1.                   |            |         |           |                      |                      |                      |                    |          |  |

| Band 66_Ant 0   |            |        |           |                            |                           |                           |                    |          |        |                    |          |
|-----------------|------------|--------|-----------|----------------------------|---------------------------|---------------------------|--------------------|----------|--------|--------------------|----------|
| BW [MHz]        | Modulation | RB Sbs | RB Offset | Power Line Ch / Freq [dBm] | Power Mod Ch / Freq [dBm] | Power Hgt Ch / Freq [dBm] | Turn-up Int. (dBm) | MPR (dB) |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 13272              | 13352    | 133572 |                    |          |
| 20              | QPSK       | 1      | 0         | 15.38                      | 15.34                     | 15.36                     | 16.9               | 0        |        |                    |          |
| 20              | QPSK       | 1      | 99        | 15.38                      | 15.36                     | 15.38                     |                    |          |        |                    |          |
| 20              | QPSK       | 1      | 99        | 15.85                      | 15.98                     | 15.83                     |                    |          |        |                    |          |
| 20              | QPSK       | 50     | 0         | 15.32                      | 15.34                     | 15.35                     |                    |          |        |                    |          |
| 20              | QPSK       | 50     | 24        | 15.37                      | 15.39                     | 15.37                     | 16.9               | 0        |        |                    |          |
| 20              | QPSK       | 50     | 50        | 15.88                      | 15.96                     | 15.79                     |                    |          |        |                    |          |
| 20              | QPSK       | 100    | 0         | 15.95                      | 15.88                     | 15.98                     |                    |          |        |                    |          |
| 20              | 16QAM      | 1      | 0         | 15.90                      | 15.90                     | 15.90                     |                    |          |        |                    |          |
| 20              | 16QAM      | 1      | 49        | 15.88                      | 15.97                     | 15.89                     | 16.9               | 0        |        |                    |          |
| 20              | 16QAM      | 1      | 99        | 15.89                      | 16.03                     | 15.80                     |                    |          |        |                    |          |
| 20              | 16QAM      | 50     | 0         | 15.91                      | 15.97                     | 15.76                     |                    |          |        |                    |          |
| 20              | 16QAM      | 50     | 24        | 15.91                      | 15.96                     | 15.78                     |                    |          |        |                    |          |
| 20              | 16QAM      | 50     | 50        | 15.90                      | 16.02                     | 15.86                     | 16.9               | 0        |        |                    |          |
| 20              | 16QAM      | 100    | 0         | 15.94                      | 15.94                     | 15.92                     |                    |          |        |                    |          |
| 20              | 16QAM      | 1      | 0         | 15.97                      | 15.91                     | 15.74                     |                    |          |        |                    |          |
| 20              | 64QAM      | 1      | 49        | 16.92                      | 16.90                     | 16.84                     | 16.9               | 0        |        |                    |          |
| 20              | 64QAM      | 1      | 99        | 15.94                      | 16.01                     | 15.97                     |                    |          |        |                    |          |
| 20              | 64QAM      | 50     | 0         | 15.85                      | 16.03                     | 15.88                     |                    |          |        |                    |          |
| 20              | 64QAM      | 50     | 24        | 15.94                      | 16.06                     | 16.01                     |                    |          |        |                    |          |
| 20              | 64QAM      | 50     | 50        | 15.76                      | 15.96                     | 15.76                     | 16.9               | 0        |        |                    |          |
| 20              | 64QAM      | 100    | 0         | 15.93                      | 15.93                     | 15.78                     |                    |          |        |                    |          |
| 20              | 256QAM     | 1      | 0         | 15.87                      | 15.98                     | 15.94                     |                    |          |        |                    |          |
| 20              | 256QAM     | 1      | 49        | 15.88                      | 15.99                     | 16.03                     |                    |          |        |                    |          |
| 20              | 256QAM     | 1      | 99        | 15.76                      | 15.97                     | 15.77                     | 16.9               | 0        |        |                    |          |
| 20              | 256QAM     | 50     | 0         | 15.94                      | 16.03                     | 15.89                     |                    |          |        |                    |          |
| 20              | 256QAM     | 50     | 24        | 15.99                      | 16.08                     | 16.07                     |                    |          |        |                    |          |
| 20              | 256QAM     | 50     | 50        | 15.78                      | 15.81                     | 15.73                     |                    |          |        |                    |          |
| 20              | 256QAM     | 100    | 0         | 15.90                      | 15.90                     | 15.82                     | 16.9               | 0        |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 133074             | 133522   | 133567 | Turn-up Int. (dBm) | MPR (dB) |
| 16              | QPSK       | 1      | 0         | 15.83                      | 15.80                     | 15.94                     | 16.9               | 0        |        |                    |          |
| 16              | QPSK       | 1      | 37        | 15.80                      | 15.83                     | 15.92                     |                    |          |        |                    |          |
| 16              | QPSK       | 1      | 74        | 15.76                      | 15.84                     | 15.69                     |                    |          |        |                    |          |
| 16              | QPSK       | 36     | 0         | 15.92                      | 15.89                     | 15.80                     |                    |          |        |                    |          |
| 16              | QPSK       | 36     | 20        | 15.86                      | 15.90                     | 15.71                     | 16.9               | 0        |        |                    |          |
| 16              | QPSK       | 36     | 39        | 15.75                      | 15.94                     | 15.66                     |                    |          |        |                    |          |
| 16              | QPSK       | 75     | 0         | 15.91                      | 15.90                     | 15.89                     |                    |          |        |                    |          |
| 16              | 16QAM      | 1      | 0         | 15.82                      | 15.87                     | 15.79                     |                    |          |        |                    |          |
| 16              | 16QAM      | 1      | 37        | 15.80                      | 15.75                     | 15.86                     | 16.9               | 0        |        |                    |          |
| 16              | 16QAM      | 1      | 74        | 15.77                      | 15.98                     | 15.68                     |                    |          |        |                    |          |
| 16              | 16QAM      | 36     | 0         | 15.83                      | 15.85                     | 15.68                     |                    |          |        |                    |          |
| 16              | 16QAM      | 36     | 20        | 15.81                      | 15.83                     | 15.69                     |                    |          |        |                    |          |
| 16              | 16QAM      | 36     | 39        | 15.86                      | 16.00                     | 15.82                     | 16.9               | 0        |        |                    |          |
| 16              | 16QAM      | 75     | 0         | 15.82                      | 15.84                     | 15.68                     |                    |          |        |                    |          |
| 16              | 64QAM      | 1      | 0         | 15.84                      | 15.78                     | 15.68                     |                    |          |        |                    |          |
| 16              | 64QAM      | 1      | 37        | 15.85                      | 16.77                     | 15.72                     |                    |          |        |                    |          |
| 16              | 64QAM      | 1      | 74        | 15.85                      | 15.80                     | 15.80                     | 16.9               | 0        |        |                    |          |
| 16              | 64QAM      | 36     | 0         | 15.73                      | 15.92                     | 15.83                     |                    |          |        |                    |          |
| 16              | 64QAM      | 36     | 20        | 15.91                      | 15.93                     | 15.87                     |                    |          |        |                    |          |
| 16              | 64QAM      | 36     | 39        | 15.71                      | 15.93                     | 15.72                     |                    |          |        |                    |          |
| 16              | 64QAM      | 75     | 0         | 15.83                      | 15.90                     | 15.68                     | 16.9               | 0        |        |                    |          |
| 16              | 256QAM     | 1      | 0         | 15.80                      | 15.95                     | 15.91                     |                    |          |        |                    |          |
| 16              | 256QAM     | 1      | 37        | 15.83                      | 15.94                     | 15.88                     |                    |          |        |                    |          |
| 16              | 256QAM     | 1      | 74        | 15.87                      | 15.89                     | 15.85                     |                    |          |        |                    |          |
| 16              | 256QAM     | 36     | 0         | 15.84                      | 15.98                     | 15.83                     | 16.9               | 0        |        |                    |          |
| 16              | 256QAM     | 36     | 20        | 15.92                      | 15.83                     | 15.54                     |                    |          |        |                    |          |
| 16              | 256QAM     | 36     | 39        | 15.76                      | 15.88                     | 15.58                     |                    |          |        |                    |          |
| 16              | 256QAM     | 75     | 0         | 15.83                      | 15.78                     | 15.80                     |                    |          |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 133522             | 133522   | 133622 | Turn-up Int. (dBm) | MPR (dB) |
| 16              | QPSK       | 1      | 0         | 15.84                      | 15.85                     | 15.94                     | 16.9               | 0        |        |                    |          |
| 16              | QPSK       | 1      | 25        | 15.87                      | 15.89                     | 15.92                     |                    |          |        |                    |          |
| 16              | QPSK       | 1      | 49        | 15.84                      | 15.83                     | 15.78                     |                    |          |        |                    |          |
| 16              | QPSK       | 12     | 0         | 15.92                      | 15.81                     | 15.86                     |                    |          |        |                    |          |
| 16              | QPSK       | 25     | 0         | 15.89                      | 15.91                     | 15.86                     | 16.9               | 0        |        |                    |          |
| 16              | QPSK       | 25     | 13        | 15.87                      | 15.90                     | 15.72                     |                    |          |        |                    |          |
| 16              | QPSK       | 50     | 0         | 15.92                      | 15.90                     | 15.86                     |                    |          |        |                    |          |
| 16              | 16QAM      | 1      | 0         | 15.77                      | 15.87                     | 15.78                     |                    |          |        |                    |          |
| 16              | 16QAM      | 1      | 25        | 15.78                      | 15.77                     | 15.78                     | 16.9               | 0        |        |                    |          |
| 16              | 16QAM      | 1      | 49        | 15.82                      | 15.94                     | 15.70                     |                    |          |        |                    |          |
| 16              | 16QAM      | 36     | 0         | 15.78                      | 15.98                     | 15.63                     |                    |          |        |                    |          |
| 16              | 16QAM      | 36     | 12        | 15.89                      | 15.95                     | 15.62                     |                    |          |        |                    |          |
| 16              | 16QAM      | 25     | 25        | 15.84                      | 15.93                     | 15.81                     | 16.9               | 0        |        |                    |          |
| 16              | 16QAM      | 50     | 0         | 15.88                      | 15.79                     | 15.61                     |                    |          |        |                    |          |
| 16              | 64QAM      | 1      | 0         | 15.85                      | 15.86                     | 15.62                     |                    |          |        |                    |          |
| 16              | 64QAM      | 1      | 25        | 15.82                      | 15.84                     | 15.80                     |                    |          |        |                    |          |
| 16              | 64QAM      | 36     | 0         | 15.84                      | 15.84                     | 15.65                     | 16.9               | 0        |        |                    |          |
| 16              | 64QAM      | 25     | 0         | 15.78                      | 16.02                     | 15.74                     |                    |          |        |                    |          |
| 16              | 64QAM      | 25     | 12        | 15.91                      | 15.81                     | 15.93                     |                    |          |        |                    |          |
| 16              | 64QAM      | 25     | 39        | 15.82                      | 16.04                     | 15.74                     |                    |          |        |                    |          |
| 16              | 64QAM      | 50     | 0         | 15.84                      | 15.89                     | 15.86                     | 16.9               | 0        |        |                    |          |
| 16              | 256QAM     | 1      | 0         | 15.80                      | 15.95                     | 15.91                     |                    |          |        |                    |          |
| 16              | 256QAM     | 1      | 25        | 15.85                      | 15.98                     | 15.88                     |                    |          |        |                    |          |
| 16              | 256QAM     | 1      | 49        | 15.87                      | 15.92                     | 15.73                     |                    |          |        |                    |          |
| 16              | 256QAM     | 25     | 0         | 15.80                      | 16.00                     | 15.82                     | 16.9               | 0        |        |                    |          |
| 16              | 256QAM     | 25     | 12        | 15.86                      | 15.83                     | 15.57                     |                    |          |        |                    |          |
| 16              | 256QAM     | 25     | 25        | 15.87                      | 15.77                     | 15.62                     |                    |          |        |                    |          |
| 16              | 256QAM     | 50     | 0         | 15.83                      | 15.89                     | 15.78                     |                    |          |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 133572             | 133522   | 133627 | Turn-up Int. (dBm) | MPR (dB) |
| 5               | QPSK       | 1      | 0         | 15.90                      | 15.91                     | 15.95                     | 16.9               | 0        |        |                    |          |
| 5               | QPSK       | 1      | 12        | 15.90                      | 16.04                     | 15.95                     |                    |          |        |                    |          |
| 5               | QPSK       | 1      | 24        | 15.70                      | 15.85                     | 15.68                     |                    |          |        |                    |          |
| 5               | QPSK       | 12     | 0         | 15.91                      | 15.81                     | 15.84                     |                    |          |        |                    |          |
| 5               | QPSK       | 12     | 7         | 15.82                      | 15.87                     | 15.70                     | 16.9               | 0        |        |                    |          |
| 5               | QPSK       | 12     | 13        | 15.79                      | 15.89                     | 15.73                     |                    |          |        |                    |          |
| 5               | QPSK       | 25     | 0         | 15.80                      | 15.95                     | 15.85                     |                    |          |        |                    |          |
| 5               | 16QAM      | 1      | 0         | 15.78                      | 15.95                     | 15.77                     |                    |          |        |                    |          |
| 5               | 16QAM      | 1      | 12        | 15.83                      | 15.82                     | 15.83                     | 16.9               | 0        |        |                    |          |
| 5               | 16QAM      | 1      | 24        | 15.78                      | 15.96                     | 15.68                     |                    |          |        |                    |          |
| 5               | 16QAM      | 12     | 0         | 15.82                      | 15.85                     | 15.68                     |                    |          |        |                    |          |
| 5               | 16QAM      | 12     | 7         | 15.79                      | 15.87                     | 15.69                     |                    |          |        |                    |          |
| 5               | 16QAM      | 12     | 13        | 15.81                      | 15.92                     | 15.79                     | 16.9               | 0        |        |                    |          |
| 5               | 16QAM      | 25     | 0         | 15.81                      | 15.90                     | 15.67                     |                    |          |        |                    |          |
| 5               | 64QAM      | 1      | 0         | 15.82                      | 15.90                     | 15.68                     |                    |          |        |                    |          |
| 5               | 64QAM      | 1      | 12        | 15.83                      | 15.82                     | 15.74                     | 16.9               | 0        |        |                    |          |
| 5               | 64QAM      | 1      | 24        | 15.78                      | 15.94                     | 15.69                     |                    |          |        |                    |          |
| 5               | 64QAM      | 12     | 0         | 15.80                      | 15.84                     | 15.81                     |                    |          |        |                    |          |
| 5               | 64QAM      | 12     | 13        | 15.68                      | 15.88                     | 15.66                     |                    |          |        |                    |          |
| 5               | 64QAM      | 25     | 0         | 15.78                      | 15.78                     | 15.65                     | 16.9               | 0        |        |                    |          |
| 5               | 64QAM      | 25     | 12        | 15.80                      | 15.87                     | 15.65                     |                    |          |        |                    |          |
| 5               | 64QAM      | 25     | 25        | 15.74                      | 15.83                     | 15.66                     |                    |          |        |                    |          |
| 5               | 64QAM      | 50     | 0         | 15.78                      | 15.85                     | 15.66                     |                    |          |        |                    |          |
| 5               | 256QAM     | 1      | 0         | 15.74                      | 15.93                     | 15.96                     | 16.9               | 0        |        |                    |          |
| 5               | 256QAM     | 1      | 24        | 15.70                      | 15.88                     | 15.62                     |                    |          |        |                    |          |
| 5               | 256QAM     | 12     | 0         | 15.80                      | 15.93                     | 15.79                     |                    |          |        |                    |          |
| 5               | 256QAM     | 12     | 7         | 15.81                      | 15.77                     | 15.54                     |                    |          |        |                    |          |
| 5               | 256QAM     | 12     | 13        | 15.82                      | 15.88                     | 15.65                     | 16.9               | 0        |        |                    |          |
| 5               | 256QAM     | 25     | 0         | 15.78                      | 15.98                     | 15.72                     |                    |          |        |                    |          |
| 5               | 256QAM     | 25     | 13        | 15.80                      | 15.85                     | 15.65                     |                    |          |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 133572             | 133522   | 133627 | Turn-up Int. (dBm) | MPR (dB) |
| 3               | QPSK       | 1      | 0         | 15.87                      | 15.87                     | 15.91                     | 16.9               | 0        |        |                    |          |
| 3               | QPSK       | 1      | 8         | 15.81                      | 15.74                     | 15.85                     |                    |          |        |                    |          |
| 3               | QPSK       | 1      | 16        | 15.76                      | 15.80                     | 15.73                     |                    |          |        |                    |          |
| 3               | QPSK       | 8      | 0         | 15.86                      | 15.83                     | 15.81                     |                    |          |        |                    |          |
| 3               | QPSK       | 8      | 4         | 15.81                      | 15.86                     | 15.75                     | 16.9               | 0        |        |                    |          |
| 3               | QPSK       | 8      | 12        | 15.76                      | 15.85                     | 15.70                     |                    |          |        |                    |          |
| 3               | QPSK       | 16     | 0         | 15.87                      | 15.89                     | 15.86                     |                    |          |        |                    |          |
| 3               | 16QAM      | 1      | 0         | 15.82                      | 15.90                     | 15.67                     |                    |          |        |                    |          |
| 3               | 16QAM      | 1      | 8         | 15.81                      | 15.74                     | 15.85                     | 16.9               | 0        |        |                    |          |
| 3               | 16QAM      | 1      | 16        | 15.76                      | 15.80                     | 15.73                     |                    |          |        |                    |          |
| 3               | 16QAM      | 8      | 0         | 15.86                      | 15.83                     | 15.81                     |                    |          |        |                    |          |
| 3               | 16QAM      | 8      | 4         | 15.81                      | 15.86                     | 15.75                     |                    |          |        |                    |          |
| 3               | 16QAM      | 8      | 12        | 15.76                      | 15.85                     | 15.70                     | 16.9               | 0        |        |                    |          |
| 3               | 16QAM      | 16     | 0         | 15.87                      | 15.89                     | 15.86                     |                    |          |        |                    |          |
| 3               | 64QAM      | 1      | 0         | 15.82                      | 15.90                     | 15.67                     |                    |          |        |                    |          |
| 3               | 64QAM      | 1      | 8         | 15.81                      | 15.74                     | 15.85                     |                    |          |        |                    |          |
| 3               | 64QAM      | 1      | 16        | 15.76                      | 15.80                     | 15.73                     | 16.9               | 0        |        |                    |          |
| 3               | 64QAM      | 8      | 0         | 15.86                      | 15.83                     | 15.81                     |                    |          |        |                    |          |
| 3               | 64QAM      | 8      | 4         | 15.81                      | 15.86                     | 15.75                     |                    |          |        |                    |          |
| 3               | 64QAM      | 8      | 12        | 15.76                      | 15.85                     | 15.70                     |                    |          |        |                    |          |
| 3               | 64QAM      | 16     | 0         | 15.87                      | 15.89                     | 15.86                     | 16.9               | 0        |        |                    |          |
| 3               | 64QAM      | 1      | 0         | 15.82                      | 15.90                     | 15.67                     |                    |          |        |                    |          |
| 3               | 64QAM      | 1      | 14        | 15.84                      | 15.96                     | 15.84                     |                    |          |        |                    |          |
| 3               | 64QAM      | 8      | 0         | 15.84                      | 15.86                     | 15.80                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.98                     | 15.84                     | 16.9               | 0        |        |                    |          |
| 3               | 64QAM      | 8      | 7         | 15.82                      | 15.87                     | 15.74                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.94                     | 15.71                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.94                     | 15.71                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.94                     | 15.71                     | 16.9               | 0        |        |                    |          |
| 3               | 64QAM      | 8      | 7         | 15.82                      | 15.87                     | 15.74                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.94                     | 15.71                     |                    |          |        |                    |          |
| 3               | 64QAM      | 15     | 0         | 15.84                      | 15.94                     | 15.71                     |                    |          |        |                    |          |
| 3               | 256QAM     | 1      | 8         | 15.84                      | 15.91                     | 15.87                     | 16.9               | 0        |        |                    |          |
| 3               | 256QAM     | 1      | 14        | 15.80                      | 15.93                     | 15.87                     |                    |          |        |                    |          |
| 3               | 256QAM     | 8      | 0         | 15.86                      | 15.93                     | 15.82                     |                    |          |        |                    |          |
| 3               | 256QAM     | 8      | 4         | 15.88                      | 15.73                     | 15.63                     |                    |          |        |                    |          |
| 3               | 256QAM     | 8      | 7         | 15.85                      | 15.86                     | 15.81                     | 16.9               | 0        |        |                    |          |
| 3               | 256QAM     | 15     | 0         | 15.84                      | 15.94                     | 15.87                     |                    |          |        |                    |          |
| 3               | 256QAM     | 15     | 0         | 15.84                      | 15.94                     | 15.87                     |                    |          |        |                    |          |
| Channel         |            |        |           |                            |                           |                           |                    |          |        |                    |          |
| Frequency (MHz) |            |        |           |                            |                           |                           | 133627             | 133627   | 133666 | Turn-up Int. (dBm) | MPR (dB) |
| 14              | QPSK       | 1      | 0         | 15.77                      | 15.75                     | 15.77                     | 16.9               | 0        |        |                    |          |
| 14              | QPSK       | 1      | 3         | 15.79                      | 15.78                     | 15.80                     |                    |          |        |                    |          |
| 14              | QPSK       | 1      | 5         | 15.74                      | 15.89                     | 15.70                     |                    |          |        |                    |          |
| 14              | QPSK       | 3      | 0         | 15.86                      | 15.98                     | 15.86                     |                    |          |        |                    |          |
| 14              | QPSK       | 3      | 1         | 15.91                      | 15.97                     | 15.79                     | 16.9               | 0        |        |                    |          |
| 14              | QPSK       | 3      | 3         | 15.87                      | 15.93                     | 15.78                     |                    |          |        |                    |          |
| 14              | QPSK       | 3      | 5         | 15.83                      | 15.93                     | 15.78                     |                    |          |        |                    |          |
| 14              | 16QAM      | 1      | 0         |                            |                           |                           |                    |          |        |                    |          |

| Band 48_Ant 4   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 13.89                 | 13.84                        | 13.82                         | 13.94                  | 15                  | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 13.99                 | 13.86                        | 13.99                         | 14.07                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 13.93                 | 13.85                        | 13.91                         | 13.97                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 13.96                 | 13.78                        | 13.96                         | 14.06                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 13.73                 | 13.73                        | 13.70                         | 13.77                  | 15                  | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 13.86                 | 13.77                        | 13.68                         | 13.76                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 13.74                 | 13.80                        | 13.71                         | 14.05                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 13.92                 | 13.74                        | 13.92                         | 14.02                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 13.88                 | 13.72                        | 13.85                         | 13.80                  | 15                  | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 13.74                 | 13.75                        | 13.70                         | 13.81                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 13.88                 | 13.75                        | 14.02                         | 13.97                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 13.82                 | 13.67                        | 13.74                         | 13.89                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 13.76                 | 13.72                        | 13.66                         | 13.85                  | 15                  | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 13.96                 | 13.68                        | 13.99                         | 14.01                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 13.87                 | 13.77                        | 13.82                         | 13.80                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 13.80                 | 13.71                        | 13.79                         | 13.94                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 13.95                 | 13.88                        | 13.99                         | 14.06                  | 15                  | 0        |  |  |
| 20              | 64QAM      | 50      | 0         | 13.84                 | 13.71                        | 13.86                         | 13.81                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 13.87                 | 13.72                        | 13.82                         | 13.85                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 13.92                 | 13.75                        | 13.97                         | 13.97                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 13.88                 | 13.76                        | 13.81                         | 13.77                  | 15                  | 0        |  |  |
| 20              | 256QAM     | 1       | 0         | 13.81                 | 13.64                        | 13.70                         | 13.93                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 13.97                 | 13.76                        | 13.93                         | 13.92                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 13.80                 | 13.80                        | 13.73                         | 13.82                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 13.70                 | 13.78                        | 13.72                         | 13.85                  | 15                  | 0        |  |  |
| 20              | 256QAM     | 50      | 24        | 13.74                 | 13.77                        | 13.69                         | 13.82                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 13.94                 | 13.78                        | 14.01                         | 14.02                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 13.79                 | 13.75                        | 13.80                         | 13.83                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 13.80                 | 13.73                        | 13.71                         | 13.85                  | 15                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 13.97                 | 13.74                        | 13.97                         | 13.96                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 13.82                 | 13.73                        | 13.88                         | 13.86                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 13.89                 | 13.71                        | 13.87                         | 13.94                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 13.61                 | 13.71                        | 13.63                         | 13.66                  | 15                  | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 13.79                 | 13.65                        | 13.65                         | 13.71                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 13.69                 | 13.68                        | 13.63                         | 14.03                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 13.85                 | 13.69                        | 13.87                         | 14.00                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 13.80                 | 13.60                        | 13.74                         | 13.76                  | 15                  | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 13.72                 | 13.73                        | 13.65                         | 13.79                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 13.81                 | 13.73                        | 13.92                         | 13.90                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 13.77                 | 13.56                        | 13.64                         | 13.81                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 13.72                 | 13.69                        | 13.54                         | 13.76                  | 15                  | 0        |  |  |
| 15              | 16QAM      | 75      | 0         | 13.92                 | 13.57                        | 13.95                         | 13.99                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 13.76                 | 13.75                        | 13.75                         | 13.75                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 13.76                 | 13.66                        | 13.77                         | 13.83                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 13.93                 | 13.77                        | 13.96                         | 13.96                  | 15                  | 0        |  |  |
| 15              | 64QAM      | 36      | 0         | 13.77                 | 13.61                        | 13.78                         | 13.79                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 13.85                 | 13.63                        | 13.77                         | 13.78                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 13.81                 | 13.66                        | 13.94                         | 13.90                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 13.81                 | 13.65                        | 13.74                         | 13.71                  | 15                  | 0        |  |  |
| 15              | 256QAM     | 1       | 0         | 13.77                 | 13.62                        | 13.63                         | 13.81                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 13.95                 | 13.67                        | 13.82                         | 13.80                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 13.76                 | 13.68                        | 13.65                         | 13.74                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 13.59                 | 13.67                        | 13.67                         | 13.73                  | 15                  | 0        |  |  |
| 15              | 256QAM     | 36      | 20        | 13.62                 | 13.69                        | 13.61                         | 13.80                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 13.87                 | 13.76                        | 13.95                         | 13.95                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 13.74                 | 13.66                        | 13.77                         | 13.71                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 13.85                 | 13.76                        | 13.79                         | 13.92                  | 15                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 13.88                 | 13.74                        | 13.88                         | 14.05                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 13.91                 | 13.78                        | 13.82                         | 13.89                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 13.84                 | 13.67                        | 13.92                         | 14.04                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 13.63                 | 13.64                        | 13.62                         | 13.66                  | 15                  | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 13.83                 | 13.73                        | 13.57                         | 13.66                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 13.69                 | 13.74                        | 13.67                         | 13.94                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 13.85                 | 13.62                        | 13.82                         | 14.00                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 13.79                 | 13.67                        | 13.82                         | 13.75                  | 15                  | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 13.69                 | 13.66                        | 13.59                         | 13.70                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 13.76                 | 13.71                        | 13.97                         | 13.95                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 13.70                 | 13.59                        | 13.62                         | 13.79                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 13.74                 | 13.62                        | 13.63                         | 13.74                  | 15                  | 0        |  |  |
| 10              | 16QAM      | 50      | 0         | 13.85                 | 13.66                        | 13.89                         | 13.97                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 13.84                 | 13.69                        | 13.74                         | 13.88                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 13.78                 | 13.60                        | 13.70                         | 13.82                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 13.83                 | 13.79                        | 13.91                         | 13.96                  | 15                  | 0        |  |  |
| 10              | 64QAM      | 25      | 0         | 13.78                 | 13.61                        | 13.81                         | 13.78                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 13.75                 | 13.66                        | 13.70                         | 13.78                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 13.80                 | 13.70                        | 13.87                         | 13.92                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 13.78                 | 13.67                        | 13.71                         | 13.66                  | 15                  | 0        |  |  |
| 10              | 256QAM     | 1       | 0         | 13.74                 | 13.53                        | 13.58                         | 13.83                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 13.89                 | 13.72                        | 13.90                         | 13.82                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 13.78                 | 13.74                        | 13.67                         | 13.78                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 13.65                 | 13.71                        | 13.61                         | 13.76                  | 15                  | 0        |  |  |
| 10              | 256QAM     | 25      | 12        | 13.71                 | 13.73                        | 13.65                         | 13.76                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 13.88                 | 13.76                        | 13.92                         | 13.92                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 13.73                 | 13.73                        | 13.76                         | 13.74                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 13.85                 | 13.80                        | 13.71                         | 13.89                  | 15                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 13.97                 | 13.83                        | 13.87                         | 13.99                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 13.87                 | 13.78                        | 13.88                         | 13.86                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 13.94                 | 13.70                        | 13.85                         | 13.97                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 13.70                 | 13.62                        | 13.59                         | 13.71                  | 15                  | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 13.79                 | 13.75                        | 13.64                         | 13.66                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 13.66                 | 13.73                        | 13.69                         | 14.01                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 13.88                 | 13.68                        | 13.87                         | 13.95                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 13.77                 | 13.69                        | 13.83                         | 13.71                  | 15                  | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 13.65                 | 13.63                        | 13.63                         | 13.72                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 13.80                 | 13.72                        | 13.99                         | 13.92                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 13.79                 | 13.60                        | 13.71                         | 13.82                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 13.73                 | 13.67                        | 13.60                         | 13.78                  | 15                  | 0        |  |  |
| 5               | 16QAM      | 25      | 0         | 13.87                 | 13.66                        | 13.90                         | 13.99                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 13.79                 | 13.66                        | 13.78                         | 13.76                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 13.74                 | 13.67                        | 13.76                         | 13.84                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 13.85                 | 13.86                        | 13.86                         | 13.90                  | 15                  | 0        |  |  |
| 5               | 64QAM      | 12      | 0         | 13.82                 | 13.80                        | 13.80                         | 13.72                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 13.83                 | 13.62                        | 13.79                         | 13.82                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 13.89                 | 13.71                        | 13.94                         | 13.85                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 13.82                 | 13.68                        | 13.76                         | 13.65                  | 15                  | 0        |  |  |
| 5               | 256QAM     | 1       | 0         | 13.79                 | 13.59                        | 13.62                         | 13.86                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 12        | 13.92                 | 13.67                        | 13.86                         | 13.80                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 13.73                 | 13.69                        | 13.71                         | 13.72                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 0         | 13.67                 | 13.67                        | 13.65                         | 13.78                  | 15                  | 0        |  |  |
| 5               | 256QAM     | 12      | 7         | 13.66                 | 13.67                        | 13.58                         | 13.70                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 13        | 13.88                 | 13.73                        | 13.92                         | 13.98                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 13.69                 | 13.64                        | 13.68                         | 13.81                  |                     |          |  |  |

| Band 48_Ant 8   |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 14.96                 | 14.91                        | 15.07                         | 15.00                  | 16.7                | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 15.06                 | 15.18                        | 15.13                         | 15.29                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 15.00                 | 15.06                        | 15.05                         | 15.03                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 15.09                 | 15.02                        | 15.05                         | 15.20                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 15.05                 | 15.00                        | 15.00                         | 15.15                  | 16.7                | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 14.90                 | 15.00                        | 14.94                         | 15.15                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 14.96                 | 15.06                        | 15.06                         | 15.07                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 15.01                 | 15.00                        | 15.05                         | 15.13                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 15.04                 | 15.14                        | 14.99                         | 15.01                  | 16.7                | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 14.94                 | 15.13                        | 15.08                         | 15.08                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 14.88                 | 15.08                        | 15.14                         | 15.14                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 14.87                 | 14.96                        | 15.00                         | 15.12                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 14.97                 | 15.07                        | 15.08                         | 15.13                  | 16.7                | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 14.99                 | 14.97                        | 15.06                         | 15.03                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 14.92                 | 15.07                        | 15.03                         | 15.07                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 14.98                 | 15.09                        | 15.08                         | 15.02                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 99        | 14.96                 | 15.01                        | 15.14                         | 15.04                  | 16.7                | 0        |  |  |
| 20              | 64QAM      | 50      | 0         | 14.89                 | 14.98                        | 15.14                         | 15.11                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 14.96                 | 15.02                        | 15.01                         | 15.07                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 14.98                 | 15.05                        | 14.98                         | 15.00                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 15.01                 | 15.10                        | 15.05                         | 15.02                  | 16.7                | 0        |  |  |
| 20              | 256QAM     | 1       | 0         | 15.01                 | 15.00                        | 15.07                         | 15.14                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 15.00                 | 15.14                        | 15.11                         | 15.04                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 99        | 14.92                 | 15.04                        | 15.03                         | 15.03                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 15.08                 | 15.05                        | 15.07                         | 15.16                  | 16.7                | 0        |  |  |
| 20              | 256QAM     | 50      | 24        | 14.93                 | 15.00                        | 15.09                         | 15.13                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 15.01                 | 15.00                        | 14.96                         | 15.10                  |                     |          |  |  |
| 20              | 256QAM     | 100     | 0         | 14.93                 | 15.05                        | 15.05                         | 15.06                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56655                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 14.94                 | 14.88                        | 14.95                         | 14.97                  | 16.7                | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 15.02                 | 15.09                        | 15.08                         | 15.18                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 14.90                 | 14.99                        | 15.02                         | 14.93                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 15.06                 | 15.00                        | 14.95                         | 15.12                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 15.02                 | 14.94                        | 14.94                         | 15.04                  | 16.7                | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 14.78                 | 14.88                        | 14.86                         | 15.10                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 14.91                 | 15.00                        | 14.95                         | 15.02                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 14.99                 | 14.89                        | 14.93                         | 15.07                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 14.94                 | 15.08                        | 14.87                         | 14.93                  | 16.7                | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 14.89                 | 15.11                        | 15.06                         | 15.01                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 14.77                 | 15.04                        | 15.02                         | 15.11                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 14.80                 | 14.92                        | 14.88                         | 15.00                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 14.93                 | 15.01                        | 15.03                         | 15.06                  | 16.7                | 0        |  |  |
| 15              | 16QAM      | 75      | 0         | 14.94                 | 14.86                        | 14.96                         | 14.93                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 14.86                 | 14.96                        | 14.99                         | 14.96                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 14.92                 | 14.99                        | 14.96                         | 14.98                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 14.88                 | 14.89                        | 15.04                         | 14.94                  | 16.7                | 0        |  |  |
| 15              | 64QAM      | 36      | 0         | 14.82                 | 14.90                        | 15.06                         | 15.05                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 14.92                 | 14.90                        | 14.93                         | 14.95                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 14.92                 | 14.97                        | 14.95                         | 14.98                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 14.95                 | 14.99                        | 14.98                         | 14.95                  | 16.7                | 0        |  |  |
| 15              | 256QAM     | 1       | 0         | 14.91                 | 14.92                        | 14.97                         | 15.06                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 37        | 14.96                 | 15.12                        | 15.09                         | 15.00                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 14.88                 | 14.94                        | 14.96                         | 14.92                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 14.96                 | 14.97                        | 15.00                         | 15.09                  | 16.7                | 0        |  |  |
| 15              | 256QAM     | 36      | 20        | 14.82                 | 14.92                        | 15.01                         | 15.06                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 14.97                 | 14.95                        | 14.86                         | 14.99                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 14.85                 | 14.96                        | 14.98                         | 15.04                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 14.86                 | 14.85                        | 15.05                         | 14.98                  | 16.7                | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 14.99                 | 15.09                        | 15.06                         | 15.23                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 14.92                 | 15.01                        | 14.95                         | 14.94                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 15.07                 | 14.90                        | 15.00                         | 15.13                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 15.03                 | 14.93                        | 14.92                         | 15.09                  | 16.7                | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 14.84                 | 14.98                        | 14.87                         | 15.05                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 14.87                 | 14.96                        | 15.01                         | 14.97                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 14.89                 | 14.92                        | 15.00                         | 15.04                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 14.99                 | 15.05                        | 14.94                         | 14.94                  | 16.7                | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 14.83                 | 15.08                        | 14.96                         | 15.03                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 14.82                 | 15.01                        | 15.11                         | 15.05                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 14.85                 | 14.84                        | 14.93                         | 15.00                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 14.92                 | 14.95                        | 14.96                         | 15.01                  | 16.7                | 0        |  |  |
| 10              | 16QAM      | 50      | 0         | 14.97                 | 14.93                        | 14.95                         | 14.95                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 14.86                 | 14.97                        | 14.93                         | 15.00                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 14.89                 | 15.02                        | 15.00                         | 14.99                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 14.89                 | 14.89                        | 15.12                         | 14.94                  | 16.7                | 0        |  |  |
| 10              | 64QAM      | 25      | 0         | 14.78                 | 14.94                        | 15.03                         | 15.06                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 14.87                 | 14.95                        | 14.97                         | 14.96                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 14.89                 | 14.97                        | 14.91                         | 14.98                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 14.92                 | 15.08                        | 15.01                         | 14.95                  | 16.7                | 0        |  |  |
| 10              | 256QAM     | 1       | 0         | 14.98                 | 14.98                        | 14.98                         | 15.07                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 25        | 14.93                 | 15.09                        | 15.02                         | 14.95                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 14.88                 | 14.93                        | 14.93                         | 15.01                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 14.96                 | 14.95                        | 14.99                         | 15.12                  | 16.7                | 0        |  |  |
| 10              | 256QAM     | 25      | 12        | 14.91                 | 14.95                        | 14.99                         | 15.09                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 14.99                 | 14.93                        | 14.87                         | 15.06                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 14.90                 | 15.01                        | 14.99                         | 15.00                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 14.92                 | 14.81                        | 15.01                         | 14.91                  | 16.7                | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 14.98                 | 15.13                        | 15.06                         | 15.27                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 14.95                 | 14.96                        | 14.99                         | 14.96                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 15.04                 | 14.94                        | 14.99                         | 15.11                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 15.02                 | 14.90                        | 14.89                         | 15.06                  | 16.7                | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 14.82                 | 14.91                        | 14.83                         | 15.09                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 14.89                 | 14.96                        | 15.03                         | 15.03                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 14.91                 | 14.94                        | 15.00                         | 15.04                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 14.98                 | 15.05                        | 14.92                         | 14.92                  | 16.7                | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 14.87                 | 15.03                        | 14.97                         | 14.97                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 14.82                 | 14.99                        | 15.12                         | 15.12                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 14.77                 | 14.92                        | 14.90                         | 15.07                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 14.94                 | 14.95                        | 15.02                         | 15.10                  | 16.7                | 0        |  |  |
| 5               | 16QAM      | 25      | 0         | 14.95                 | 14.86                        | 15.01                         | 14.93                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 14.84                 | 14.97                        | 14.91                         | 14.99                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 14.87                 | 15.04                        | 15.06                         | 14.90                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 14.84                 | 14.98                        | 15.11                         | 14.97                  | 16.7                | 0        |  |  |
| 5               | 64QAM      | 12      | 0         | 14.87                 | 14.95                        | 15.10                         | 15.02                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 14.90                 | 14.99                        | 14.95                         | 14.96                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 14.98                 | 15.01                        | 15.03                         | 14.96                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 0         | 14.94                 | 14.92                        | 14.97                         | 15.12                  | 16.7                | 0        |  |  |
| 5               | 256QAM     | 1       | 12        | 14.90                 | 15.06                        | 15.09                         | 14.95                  |                     |          |  |  |
| 5               | 256QAM     | 1       | 24        | 14.81                 | 14.98                        | 14.98                         | 14.93                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 0         | 15.06                 | 14.97                        | 15.05                         | 15.05                  |                     |          |  |  |
| 5               | 256QAM     | 12      | 7         | 14.88                 | 14.97                        | 15.07                         | 15.11                  | 16.7                | 0        |  |  |
| 5               | 256QAM     | 12      | 13        | 14.97                 | 14.88                        | 14.88                         | 15.05                  |                     |          |  |  |
| 5               | 256QAM     | 25      | 0         | 14.87                 | 15.02                        | 14.98                         | 14.98                  |                     |          |  |  |



| n2_Ant 0        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   | 16.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 1         | 14.78                 | 14.91                    | 14.76                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 14.89                 | 14.85                    | 14.73                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 14.81                 | 14.93                    | 15.01                  | 16.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 0         | 14.87                 | 14.90                    | 14.97                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 28        | 14.97                 | 14.92                    | 14.86                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 56        | 14.96                 | 14.94                    | 14.83                  | 16.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 14.84                 | 14.97                    | 14.93                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 14.95                 | 15.06                    | 14.99                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 14.94                 | 14.99                    | 14.77                  | 16.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 14.85                 | 14.89                    | 14.95                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 14.89                 | 14.85                    | 14.76                  |                     |          |  |
| 20              | QPSK       | 50      | 28        | 14.92                 | 15.02                    | 14.93                  | 16.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 14.83                 | 14.93                    | 14.91                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 14.95                 | 15.01                    | 14.92                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 14.95                 | 14.95                    | 14.95                  | 16.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 14.96                 | 15.01                    | 14.77                  |                     |          |  |
| 20              | 256QAM     | 1       | 1         | 14.88                 | 14.87                    | 14.86                  |                     |          |  |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1867.5                | 1880                     | 1902.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 14.90                 | 14.97                    | 14.88                  |                     |          |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 14.84                 | 15.01                    | 14.90                  |                     |          |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 14.84                 | 14.97                    | 14.88                  |                     |          |  |

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 1         | 15.73                 | 15.80                    | 15.64                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 15.84                 | 15.84                    | 15.73                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 15.64                 | 15.78                    | 15.80                  | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 0         | 15.60                 | 15.73                    | 15.74                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 28        | 15.71                 | 15.75                    | 15.73                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 56        | 15.76                 | 15.75                    | 15.66                  | 17.0                | 0.0      |  |
| 20              | PI2 BPSK   | 100     | 0         | 15.80                 | 15.97                    | 15.75                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.87                 | 15.96                    | 15.84                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 15.73                 | 15.75                    | 15.75                  | 17.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 15.72                 | 15.81                    | 15.86                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 15.76                 | 15.81                    | 15.83                  |                     |          |  |
| 20              | QPSK       | 50      | 28        | 15.81                 | 15.89                    | 15.80                  | 17.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 15.68                 | 15.84                    | 15.85                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 15.73                 | 15.78                    | 15.73                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 15.72                 | 15.82                    | 15.85                  | 17.0                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 15.68                 | 15.80                    | 15.83                  |                     |          |  |
| 20              | 256QAM     | 1       | 1         | 15.79                 | 15.79                    | 15.80                  |                     |          |  |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 17.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1902.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.71                 | 15.88                    | 15.68                  |                     |          |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 17.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.68                 | 15.75                    | 15.79                  |                     |          |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 17.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 15.72                 | 15.85                    | 15.74                  |                     |          |  |

| n25_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1895                   | 16.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 1         | 15.08                 | 15.15                    | 15.04                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 15.09                 | 15.08                    | 14.97                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 14.97                 | 15.07                    | 15.01                  | 16.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 0         | 15.03                 | 14.98                    | 15.02                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 54        | 15.03                 | 15.02                    | 14.89                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 108       | 15.06                 | 15.02                    | 14.93                  | 16.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 14.95                 | 15.17                    | 14.93                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 15.17                 | 15.22                    | 15.08                  |                     |          |  |
| 40              | QPSK       | 1       | 108       | 15.06                 | 14.99                    | 14.87                  | 16.0                | 0.0      |  |
| 40              | QPSK       | 1       | 214       | 15.06                 | 14.98                    | 14.96                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 15.03                 | 15.04                    | 14.99                  |                     |          |  |
| 40              | QPSK       | 108     | 54        | 15.08                 | 15.15                    | 15.00                  | 16.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 15.00                 | 15.11                    | 14.82                  |                     |          |  |
| 40              | QPSK       | 216     | 0         | 14.94                 | 15.11                    | 14.88                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 14.98                 | 15.08                    | 14.97                  | 16.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 15.00                 | 15.00                    | 14.88                  |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 14.97                 | 15.03                    | 15.01                  |                     |          |  |
| Channel         |            |         |           | 373500                | 376500                   | 379500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1882.5                   | 1892.5                 |                     |          |  |
| 35              | QPSK       | 1       | 1         | 15.12                 | 15.12                    | 14.97                  |                     |          |  |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1900                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 15.10                 | 15.11                    | 15.00                  |                     |          |  |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1902.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 15.12                 | 15.16                    | 15.02                  |                     |          |  |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1880                  | 1882.5                   | 1905                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.11                 | 15.12                    | 15.03                  |                     |          |  |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1887.5                | 1882.5                   | 1907.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.12                 | 15.15                    | 15.05                  |                     |          |  |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1885                  | 1882.5                   | 1910                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.12                 | 15.14                    | 15.04                  |                     |          |  |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | 16.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1882.5                | 1882.5                   | 1912.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 15.06                 | 15.17                    | 14.98                  |                     |          |  |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 16.12                 | 16.13                    | 15.95                  | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 16.00                 | 16.06                    | 16.11                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 15.89                 | 16.06                    | 15.97                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 15.98                 | 16.02                    | 15.96                  | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 15.85                 | 16.01                    | 16.00                  | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 15.91                 | 16.00                    | 15.98                  | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 15.97                 | 16.07                    | 15.94                  | 17.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 15.54                 | 16.10                    | 16.03                  | 17.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 15.88                 | 16.08                    | 16.01                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 15.89                 | 15.98                    | 15.94                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 15.88                 | 16.00                    | 15.94                  | 17.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 15.54                 | 16.10                    | 16.03                  | 17.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 15.91                 | 16.03                    | 16.02                  | 17.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 15.98                 | 15.99                    | 15.89                  | 17.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 15.97                 | 16.05                    | 16.05                  | 17.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 15.98                 | 15.98                    | 16.02                  | 17.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 15.92                 | 16.00                    | 16.03                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 35              | QPSK       | 1       | 1         | 15.87                 | 15.96                    | 16.05                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 30              | QPSK       | 1       | 1         | 15.81                 | 16.09                    | 15.96                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 25              | QPSK       | 1       | 1         | 15.93                 | 16.00                    | 16.03                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 1         | 15.92                 | 16.07                    | 15.99                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 15.81                 | 16.07                    | 16.05                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 15.93                 | 16.08                    | 15.98                  | 17.0                | 0.0      |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 1         | 15.87                 | 15.99                    | 16.01                  | 17.0                | 0.0      |  |

| n66_Ant 0       |            |         |           |                      |                         |                       |                     |          |      |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dbm) | MPR (db) |      |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 40              | PI2 BPSK   | 1       | 1         | 15.75                | 15.75                   | 15.80                 | 17.0                | 0.0      |      |
| 40              | PI2 BPSK   | 1       | 108       | 15.77                | 15.87                   | 15.75                 |                     |          |      |
| 40              | PI2 BPSK   | 1       | 214       | 15.80                | 16.00                   | 15.99                 |                     |          |      |
| 40              | PI2 BPSK   | 108     | 0         | 15.78                | 15.94                   | 15.99                 | 17.0                | 0.0      |      |
| 40              | PI2 BPSK   | 108     | 54        | 15.78                | 15.85                   | 15.75                 | 17.0                | 0.0      |      |
| 40              | PI2 BPSK   | 108     | 108       | 15.70                | 15.94                   | 15.84                 | 17.0                | 0.0      |      |
| 40              | PI2 BPSK   | 216     | 0         | 15.90                | 15.89                   | 15.93                 | 17.0                | 0.0      |      |
| 40              | QPSK       | 1       | 1         | 15.95                | 16.10                   | 15.93                 | 17.0                | 0.0      |      |
| 40              | QPSK       | 1       | 108       | 15.90                | 16.01                   | 15.86                 |                     |          |      |
| 40              | QPSK       | 1       | 214       | 15.91                | 15.83                   | 15.86                 |                     |          |      |
| 40              | QPSK       | 108     | 0         | 15.77                | 15.94                   | 15.87                 | 17.0                | 0.0      |      |
| 40              | QPSK       | 108     | 54        | 15.04                | 15.05                   | 15.01                 | 17.0                | 0.0      |      |
| 40              | QPSK       | 108     | 108       | 15.89                | 15.84                   | 15.86                 | 17.0                | 0.0      |      |
| 40              | QPSK       | 216     | 0         | 15.81                | 15.93                   | 15.91                 | 17.0                | 0.0      |      |
| 40              | 16QAM      | 1       | 1         | 15.78                | 15.89                   | 15.93                 | 17.0                | 0.0      |      |
| 40              | 64QAM      | 1       | 1         | 15.91                | 15.86                   | 15.95                 | 17.0                | 0.0      |      |
| 40              | 256QAM     | 1       | 1         | 15.83                | 16.00                   | 15.85                 | 17.0                | 0.0      |      |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 35              | QPSK       | 1       | 1         | 15.92                | 16.08                   | 15.84                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 30              | QPSK       | 1       | 1         | 15.90                | 15.94                   | 15.89                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 25              | QPSK       | 1       | 1         | 15.93                | 16.01                   | 15.87                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 20              | QPSK       | 1       | 1         | 15.85                | 16.02                   | 15.86                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 15              | QPSK       | 1       | 1         | 15.93                | 16.02                   | 15.88                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 10              | QPSK       | 1       | 1         | 15.91                | 16.00                   | 15.82                 | Tune-up limit (dbm) | MPR      | (db) |
| Channel         |            |         |           |                      |                         |                       |                     |          |      |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |      |
| 5               | QPSK       | 1       | 1         | 15.87                | 16.06                   | 15.89                 | Tune-up limit (dbm) | MPR      | (db) |

| n66_Ant 1       |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34500                   | 35000                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 15.80                | 15.82                   | 15.86                 | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 15.87                | 15.76                   | 15.81                 |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 15.68                | 15.69                   | 15.61                 |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 15.76                | 15.71                   | 15.67                 | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 15.70                | 15.71                   | 15.58                 | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 15.73                | 15.81                   | 15.79                 | 17.0                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 15.89                | 15.73                   | 15.64                 | 17.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 15.90                | 15.94                   | 15.89                 | 17.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 15.85                | 15.90                   | 15.86                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 15.74                | 15.82                   | 15.74                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 15.86                | 15.63                   | 15.67                 | 17.0                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 15.77                | 15.82                   | 15.81                 | 17.0                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 15.88                | 15.73                   | 15.78                 | 17.0                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 15.69                | 15.77                   | 15.73                 | 17.0                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 15.74                | 15.76                   | 15.59                 | 17.0                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 15.58                | 15.69                   | 15.67                 | 17.0                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 15.71                | 15.76                   | 15.82                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35200                 | Tune-up limit (dBm) | MPR (dB) |  |
| 35              | QPSK       | 1       | 1         | 17.25                | 17.45                   | 17.25                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35300                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 17.25                | 17.45                   | 17.65                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 35000                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30              | QPSK       | 1       | 1         | 15.86                | 15.81                   | 15.83                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34500                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 25              | QPSK       | 1       | 1         | 15.87                | 15.90                   | 15.86                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34400                | 34900                   | 35400                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 17.45                | 17.45                   | 17.40                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20              | QPSK       | 1       | 1         | 15.87                | 15.86                   | 15.80                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 35000                   | 35400                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 17.15                | 17.45                   | 17.25                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1       | 1         | 15.81                | 15.83                   | 15.85                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 15.81                | 15.83                   | 15.85                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1       | 1         | 17.15                | 17.45                   | 17.75                 | 17.0                | 0.0      |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           | 34500                | 34900                   | 35000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5               | QPSK       | 1       | 1         | 15.81                | 15.92                   | 15.82                 | 17.0                | 0.0      |  |





| FCC_n41_Ant 10  |            |         |           |                       |                          |                        |                     |          |          |      |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| Channel         |            |         |           | 500002                | 518998                   | 520000                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2546.51               | 2592.99                  | 2550                   |                     |          |          |      |
| 100             | PQ2 BPSK   | 1       | 1         | 20.58                 | 20.64                    | 20.56                  | 22.0                | 0.0      | 0.16     |      |
| 100             | PQ2 BPSK   | 1       | 137       | 20.60                 | 20.71                    | 20.57                  |                     |          |          |      |
| 100             | PQ2 BPSK   | 1       | 271       | 20.69                 | 20.66                    | 20.55                  |                     |          |          |      |
| 100             | PQ2 BPSK   | 135     | 0         | 20.61                 | 20.74                    | 20.59                  | 22.0                | 0.0      | 0.18     |      |
| 100             | PQ2 BPSK   | 135     | 69        | 20.64                 | 20.66                    | 20.49                  | 22.0                | 0.0      | 0.17     |      |
| 100             | PQ2 BPSK   | 135     | 138       | 20.57                 | 20.69                    | 20.57                  | 22.0                | 0.0      | 0.21     |      |
| 100             | PQ2 BPSK   | 270     | 0         | 20.67                 | 20.67                    | 20.48                  |                     |          |          |      |
| 100             | QPSK       | 1       | 1         | 20.73                 | 20.78                    | 20.62                  |                     |          |          |      |
| 100             | QPSK       | 1       | 137       | 20.59                 | 20.65                    | 20.56                  | 22.0                | 0.0      | 0.30     |      |
| 100             | QPSK       | 1       | 271       | 20.59                 | 20.64                    | 20.48                  |                     |          |          |      |
| 100             | QPSK       | 135     | 0         | 20.70                 | 20.75                    | 20.51                  |                     |          |          |      |
| 100             | QPSK       | 135     | 69        | 20.71                 | 20.75                    | 20.55                  | 22.0                | 0.0      | 0.27     |      |
| 100             | QPSK       | 135     | 138       | 20.70                 | 20.66                    | 20.48                  |                     |          |          |      |
| 100             | QPSK       | 270     | 0         | 20.69                 | 20.73                    | 20.50                  | 22.0                | 0.0      | 0.23     |      |
| 100             | 16QAM      | 1       | 1         | 20.69                 | 20.69                    | 20.61                  | 22.0                | 0.0      | 0.08     |      |
| 100             | 64QAM      | 1       | 1         | 20.70                 | 20.76                    | 20.49                  | 22.0                | 0.0      | 0.27     |      |
| 100             | 256QAM     | 1       | 1         | 20.70                 | 20.72                    | 20.60                  | 22.0                | 0.0      | 0.12     |      |
| Channel         |            |         |           | 506200                | 518998                   | 528996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2544.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 80              | QPSK       | 1       | 1         | 20.65                 | 20.77                    | 20.49                  | 22.0                | 0.0      | 0.29     |      |
| Channel         |            |         |           | 507204                | 518998                   | 529996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2536.52               | 2592.99                  | 2649.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 80              | QPSK       | 1       | 1         | 20.65                 | 20.63                    | 20.48                  | 22.0                | 0.0      | 0.17     |      |
| Channel         |            |         |           | 509202                | 518998                   | 537000                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2531.51               | 2592.99                  | 2655                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 70              | QPSK       | 1       | 1         | 20.67                 | 20.76                    | 20.53                  | 22.0                | 0.0      | 0.23     |      |
| Channel         |            |         |           | 505200                | 518998                   | 531996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2544                  | 2592.99                  | 2658.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 60              | QPSK       | 1       | 1         | 20.64                 | 20.64                    | 20.58                  | 22.0                | 0.0      | 0.06     |      |
| Channel         |            |         |           | 504204                | 518998                   | 532996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2654.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 50              | QPSK       | 1       | 1         | 20.59                 | 20.77                    | 20.61                  | 22.0                | 0.0      | 0.19     |      |
| Channel         |            |         |           | 503202                | 518998                   | 534000                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 40              | QPSK       | 1       | 1         | 20.59                 | 20.73                    | 20.61                  | 22.0                | 0.0      | 0.14     |      |
| Channel         |            |         |           | 502200                | 518998                   | 535996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 30              | QPSK       | 1       | 1         | 20.59                 | 20.66                    | 20.55                  | 22.0                | 0.0      | 0.11     |      |
| Channel         |            |         |           | 501204                | 518998                   | 535996                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2508.02               | 2592.99                  | 2678.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 20              | QPSK       | 1       | 1         | 20.59                 | 20.64                    | 20.55                  | 22.0                | 0.0      | 0.09     |      |
| Channel         |            |         |           | 500700                | 518998                   | 536496                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 15              | QPSK       | 1       | 1         | 20.60                 | 20.66                    | 20.59                  | 22.0                | 0.0      | 0.07     |      |
| Channel         |            |         |           | 500202                | 518998                   | 537000                 |                     |          |          |      |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 10              | QPSK       | 1       | 1         | 20.70                 | 20.64                    | 20.51                  | 22.0                | 0.0      | 0.19     |      |

| FCC_n41 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |          |      |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|------|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| Channel             |            |         |           | 500002                | 518998                   | 520000                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2546.51               | 2592.99                  | 2550                   |                     |          |          |      |
| 100                 | PQ2 BPSK   | 1       | 1         | 20.58                 | 20.64                    | 20.56                  | 22.0                | 0.0      | 0.16     |      |
| 100                 | PQ2 BPSK   | 1       | 137       | 20.60                 | 20.71                    | 20.57                  |                     |          |          |      |
| 100                 | PQ2 BPSK   | 1       | 271       | 20.69                 | 20.66                    | 20.55                  |                     |          |          |      |
| 100                 | PQ2 BPSK   | 135     | 0         | 20.61                 | 20.74                    | 20.59                  | 22.0                | 0.0      | 0.18     |      |
| 100                 | PQ2 BPSK   | 135     | 69        | 20.64                 | 20.66                    | 20.49                  | 22.0                | 0.0      | 0.17     |      |
| 100                 | PQ2 BPSK   | 135     | 138       | 20.57                 | 20.69                    | 20.57                  | 22.0                | 0.0      | 0.21     |      |
| 100                 | PQ2 BPSK   | 270     | 0         | 20.67                 | 20.67                    | 20.48                  |                     |          |          |      |
| 100                 | QPSK       | 1       | 1         | 20.73                 | 20.78                    | 20.62                  |                     |          |          |      |
| 100                 | QPSK       | 1       | 137       | 20.59                 | 20.65                    | 20.56                  | 22.0                | 0.0      | 0.30     |      |
| 100                 | QPSK       | 1       | 271       | 20.59                 | 20.64                    | 20.48                  |                     |          |          |      |
| 100                 | QPSK       | 135     | 0         | 20.70                 | 20.75                    | 20.51                  |                     |          |          |      |
| 100                 | QPSK       | 135     | 69        | 20.71                 | 20.75                    | 20.55                  | 22.0                | 0.0      | 0.27     |      |
| 100                 | QPSK       | 135     | 138       | 20.70                 | 20.66                    | 20.48                  |                     |          |          |      |
| 100                 | QPSK       | 270     | 0         | 20.69                 | 20.73                    | 20.50                  | 22.0                | 0.0      | 0.23     |      |
| 100                 | 16QAM      | 1       | 1         | 20.69                 | 20.69                    | 20.61                  | 22.0                | 0.0      | 0.08     |      |
| 100                 | 64QAM      | 1       | 1         | 20.70                 | 20.76                    | 20.49                  | 22.0                | 0.0      | 0.27     |      |
| 100                 | 256QAM     | 1       | 1         | 20.70                 | 20.72                    | 20.60                  | 22.0                | 0.0      | 0.12     |      |
| Channel             |            |         |           | 506200                | 518998                   | 528996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2541                  | 2592.99                  | 2544.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 80                  | QPSK       | 1       | 1         | 20.65                 | 20.77                    | 20.49                  | 22.0                | 0.0      | 0.29     |      |
| Channel             |            |         |           | 507204                | 518998                   | 529996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2536.52               | 2592.99                  | 2649.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 80                  | QPSK       | 1       | 1         | 20.65                 | 20.63                    | 20.48                  | 22.0                | 0.0      | 0.17     |      |
| Channel             |            |         |           | 509202                | 518998                   | 537000                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2531.51               | 2592.99                  | 2655                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 70                  | QPSK       | 1       | 1         | 20.67                 | 20.76                    | 20.53                  | 22.0                | 0.0      | 0.23     |      |
| Channel             |            |         |           | 505200                | 518998                   | 531996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2544                  | 2592.99                  | 2658.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 60                  | QPSK       | 1       | 1         | 20.64                 | 20.64                    | 20.58                  | 22.0                | 0.0      | 0.06     |      |
| Channel             |            |         |           | 504204                | 518998                   | 532996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2521.02               | 2592.99                  | 2654.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 50                  | QPSK       | 1       | 1         | 20.59                 | 20.77                    | 20.61                  | 22.0                | 0.0      | 0.19     |      |
| Channel             |            |         |           | 503202                | 518998                   | 534000                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2516.01               | 2592.99                  | 2670                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 40                  | QPSK       | 1       | 1         | 20.59                 | 20.73                    | 20.61                  | 22.0                | 0.0      | 0.14     |      |
| Channel             |            |         |           | 502200                | 518998                   | 535996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2511                  | 2592.99                  | 2674.98                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 30                  | QPSK       | 1       | 1         | 20.59                 | 20.66                    | 20.55                  | 22.0                | 0.0      | 0.11     |      |
| Channel             |            |         |           | 501204                | 518998                   | 535996                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2508.02               | 2592.99                  | 2678.99                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 20                  | QPSK       | 1       | 1         | 20.59                 | 20.64                    | 20.55                  | 22.0                | 0.0      | 0.09     |      |
| Channel             |            |         |           | 500700                | 518998                   | 536496                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2503.5                | 2592.99                  | 2682.48                | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 15                  | QPSK       | 1       | 1         | 20.60                 | 20.66                    | 20.59                  | 22.0                | 0.0      | 0.07     |      |
| Channel             |            |         |           | 500202                | 518998                   | 537000                 |                     |          |          |      |
| Frequency (MHz)     |            |         |           | 2501.01               | 2592.99                  | 2685                   | Tune-up limit (dBm) | MRR (dB) | Ch Delta | >0.5 |
| 10                  | QPSK       | 1       | 1         | 20.70                 | 20.64                    | 20.51                  | 22.0                | 0.0      | 0.19     |      |



| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         |                       | 13.47                    |                        | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 13.47                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 13.59                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 13.60                    |                        | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 13.55                    |                        | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 13.56                    |                        | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 13.70                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 1         |                       | 13.60                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 137       |                       | 13.64                    |                        | 15.0                | 0.0      |      |
| 100               | QPSK       | 1       | 271       |                       | 13.61                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 0         |                       | 13.48                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 69        |                       | 13.51                    |                        | 15.0                | 0.0      |      |
| 100               | QPSK       | 135     | 138       |                       | 13.57                    |                        |                     |          |      |
| 100               | QPSK       | 270     | 0         |                       | 13.55                    |                        | 15.0                | 0.0      |      |
| 100               | 16QAM      | 1       | 1         |                       | 13.56                    |                        | 15.0                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         |                       | 13.48                    |                        | 15.0                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         |                       | 13.53                    |                        | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 90                | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 80                | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3490.02               | 3499.98                  | 3510                   | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 70                | QPSK       | 1       | 1         | 631668                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 60                | QPSK       | 1       | 1         | 630668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 50                | QPSK       | 1       | 1         | 629668                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 40                | QPSK       | 1       | 1         | 628668                | 633332                   | 636998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3440.02               | 3499.98                  | 3549.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 30                | QPSK       | 1       | 1         | 627668                | 633332                   | 637998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3425.01               | 3499.98                  | 3549.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 20                | QPSK       | 1       | 1         | 626668                | 633332                   | 638998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3410.01               | 3499.98                  | 3549.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 15                | QPSK       | 1       | 1         | 625668                | 633332                   | 639998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3400.02               | 3499.98                  | 3549.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 10                | QPSK       | 1       | 1         | 624668                | 633332                   | 640998                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3385.01               | 3499.98                  | 3544.98                | 15.0                | 0.0      |      |

| Part27Q_n77_Ant 4 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         | 13.80                 | 13.85                    | 13.85                  | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 137       | 13.78                 | 13.86                    | 13.88                  |                     |          |      |
| 100               | PI2 BPSK   | 1       | 271       | 13.85                 | 13.87                    | 13.77                  |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         | 13.79                 | 13.81                    | 13.65                  | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        | 13.73                 | 13.86                    | 13.50                  | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       | 13.82                 | 13.72                    | 13.83                  | 15.0                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         | 13.75                 | 13.78                    | 13.63                  |                     |          |      |
| 100               | QPSK       | 1       | 1         | 13.85                 | 13.88                    | 13.87                  |                     |          |      |
| 100               | QPSK       | 1       | 137       | 13.83                 | 13.78                    | 13.70                  | 15.0                | 0.0      |      |
| 100               | QPSK       | 1       | 271       | 13.76                 | 13.83                    | 13.68                  |                     |          |      |
| 100               | QPSK       | 135     | 0         | 13.74                 | 13.74                    | 13.73                  |                     |          |      |
| 100               | QPSK       | 135     | 69        | 13.76                 | 13.88                    | 13.78                  | 15.0                | 0.0      |      |
| 100               | QPSK       | 135     | 138       | 13.75                 | 13.77                    | 13.84                  |                     |          |      |
| 100               | QPSK       | 270     | 0         | 13.75                 | 13.83                    | 13.59                  | 15.0                | 0.0      |      |
| 100               | 16QAM      | 1       | 1         | 13.87                 | 13.71                    | 13.70                  | 15.0                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         | 13.82                 | 13.81                    | 13.51                  | 15.0                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         | 13.78                 | 13.75                    | 13.81                  | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 90                | QPSK       | 1       | 1         | 13.78                 | 13.81                    | 13.84                  | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 80                | QPSK       | 1       | 1         | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3745.02               | 3640                     | 3674.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 70                | QPSK       | 1       | 1         | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3735                  | 3640                     | 3645                   | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 60                | QPSK       | 1       | 1         | 645668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3730.02               | 3640                     | 3649.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 50                | QPSK       | 1       | 1         | 645334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3725.01               | 3640                     | 3654.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 40                | QPSK       | 1       | 1         | 645000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3720                  | 3640                     | 3660                   | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 30                | QPSK       | 1       | 1         | 644668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3715.02               | 3640                     | 3664.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 20                | QPSK       | 1       | 1         | 644334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3710.01               | 3640                     | 3669.98                | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 15                | QPSK       | 1       | 1         | 644000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3705                  | 3640                     | 3675                   | 15.0                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |      |
| 10                | QPSK       | 1       | 1         | 643668                | 656000                   | 665332                 | Tune-up limit (dBm) | MPR      | (dB) |
|                   |            |         |           | 3700.02               | 3640                     | 3679.98                | 15.0                | 0.0      |      |

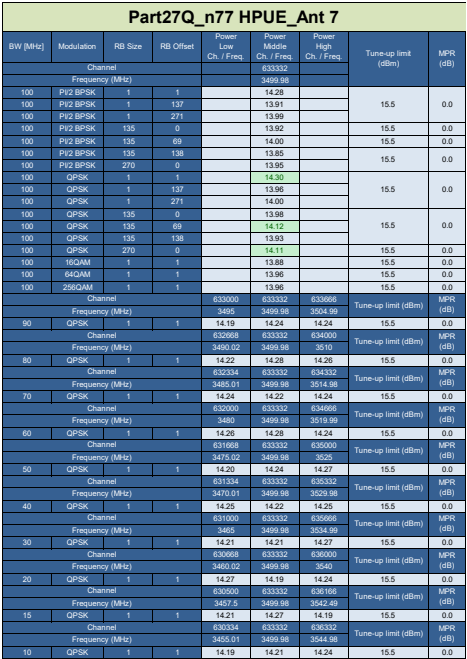
| Part27Q_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 13.47                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 13.47                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 13.59                    |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 13.60                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 13.55                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 13.56                    |                        | 15.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 13.60                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                       | 13.70                    |                        |                     |          |  |
| 100                    | QPSK       | 1       | 137       |                       | 13.64                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 271       |                       | 13.61                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         |                       | 13.48                    |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        |                       | 13.51                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       |                       | 13.57                    |                        | 15.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         |                       | 13.55                    |                        | 15.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                       | 13.55                    |                        |                     |          |  |
| 100                    | 64QAM      | 1       | 1         |                       | 13.48                    |                        |                     |          |  |
| 100                    | 256QAM     | 1       | 1         |                       | 13.53                    |                        | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 633600                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 13.64                 | 13.88                    | 13.82                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 630968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 247102                | 3499.98                  | 3501.01                |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 13.65                 | 13.56                    | 13.61                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 634501                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 13.65                 | 13.61                    | 13.62                  |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 13.65                 | 13.12                    | 13.66                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 3480                  | 3499.98                  | 3501.99                | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 13.61                 | 13.63                    | 13.59                  |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 13.61                 | 13.63                    | 13.59                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 247102                | 3499.98                  | 3501.01                |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 13.64                 | 13.00                    | 13.63                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 347011                | 3499.98                  | 3503.98                |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 13.67                 | 13.67                    | 13.60                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 3465                  | 3499.98                  | 3534.99                | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 13.63                 | 13.65                    | 13.67                  |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 13.668                | 13.6332                  | 13.600                 | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 346812                | 3499.98                  | 3540                   | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 13.63                 | 13.63                    | 13.62                  |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 13.63                 | 13.63                    | 13.62                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 13.63                 | 13.61                    | 13.66                  | 15.0                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
|                        |            |         |           | 131034                | 133332                   | 134332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                        |            |         |           | 3465.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 13.63                 | 13.62                    | 13.68                  | 15.0                | 0.0      |  |



| Part270_n77 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |          |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 650000                | 650000                   | 650000                 |                     |          |          |
|                        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |          |
| 100                    | PI2 BPSK   | 1       | 1         | 13.80                 | 13.85                    | 13.85                  |                     |          |          |
| 100                    | PI2 BPSK   | 1       | 137       | 13.78                 | 13.86                    | 13.88                  | 15.0                |          | 0.0      |
| 100                    | PI2 BPSK   | 1       | 271       | 13.85                 | 13.87                    | 13.77                  |                     |          |          |
| 100                    | PI2 BPSK   | 135     | 0         | 13.79                 | 13.81                    | 13.65                  | 15.0                |          | 0.0      |
| 100                    | PI2 BPSK   | 135     | 69        | 13.73                 | 13.86                    | 13.50                  | 15.0                |          | 0.0      |
| 100                    | PI2 BPSK   | 135     | 138       | 13.82                 | 13.72                    | 13.83                  |                     |          |          |
| 100                    | PI2 BPSK   | 270     | 0         | 13.75                 | 13.78                    | 13.83                  | 15.0                |          | 0.0      |
| 100                    | QPSK       | 1       | 1         | 13.85                 | 13.89                    | 13.97                  |                     |          |          |
| 100                    | QPSK       | 1       | 137       | 13.83                 | 13.78                    | 13.70                  | 15.0                |          | 0.0      |
| 100                    | QPSK       | 1       | 271       | 13.76                 | 13.83                    | 13.88                  |                     |          |          |
| 100                    | QPSK       | 135     | 0         | 13.74                 | 13.74                    | 13.73                  |                     |          |          |
| 100                    | QPSK       | 135     | 69        | 13.75                 | 13.88                    | 13.70                  | 15.0                |          | 0.0      |
| 100                    | QPSK       | 135     | 138       | 13.75                 | 13.77                    | 13.84                  |                     |          |          |
| 100                    | QPSK       | 270     | 0         | 13.75                 | 13.83                    | 13.89                  | 15.0                |          | 0.0      |
| 100                    | 16QAM      | 1       | 1         | 13.87                 | 13.71                    | 13.70                  | 15.0                |          | 0.0      |
| 100                    | 64QAM      | 1       | 1         | 13.82                 | 13.81                    | 13.51                  | 15.0                |          | 0.0      |
| 100                    | 256QAM     | 1       | 1         | 13.78                 | 13.75                    | 13.81                  | 15.0                |          | 0.0      |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3745.02               | 3840                     | 3934.98                |                     | 15.0     | 0.0      |
| 90                     | QPSK       | 1       | 1         | 13.78                 | 13.81                    | 13.84                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 649334                | 650000                   | 662666                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3740.01               | 3840                     | 3939.99                |                     | 15.0     | 0.0      |
| 80                     | QPSK       | 1       | 1         | 13.75                 | 13.87                    | 13.76                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 649000                | 650000                   | 663000                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3735                  | 3840                     | 3945                   |                     | 15.0     | 0.0      |
| 70                     | QPSK       | 1       | 1         | 13.80                 | 13.80                    | 13.83                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3725.02               | 3840                     | 3944.98                |                     | 15.0     | 0.0      |
| 60                     | QPSK       | 1       | 1         | 13.77                 | 13.80                    | 13.83                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3720.01               | 3840                     | 3954.99                |                     | 15.0     | 0.0      |
| 50                     | QPSK       | 1       | 1         | 13.83                 | 13.79                    | 13.82                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3720                  | 3840                     | 3960                   |                     | 15.0     | 0.0      |
| 40                     | QPSK       | 1       | 1         | 13.78                 | 13.80                    | 13.79                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 647502                | 650000                   | 664598                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3715.02               | 3840                     | 3954.98                |                     | 15.0     | 0.0      |
| 30                     | QPSK       | 1       | 1         | 13.76                 | 13.81                    | 13.79                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 647234                | 650000                   | 664966                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3710.01               | 3840                     | 3969.99                |                     | 15.0     | 0.0      |
| 20                     | QPSK       | 1       | 1         | 13.80                 | 13.87                    | 13.83                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 647068                | 650000                   | 664832                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3707.52               | 3840                     | 3972.48                |                     | 15.0     | 0.0      |
| 15                     | QPSK       | 1       | 1         | 13.83                 | 13.82                    | 13.78                  |                     |          |          |
| Channel                |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)        |            |         |           | 646700                | 650000                   | 665200                 | Tune-up limit (dBm) |          | MPR (dB) |
|                        |            |         |           | 3705                  | 3840                     | 3975                   |                     | 15.0     | 0.0      |
| 10                     | QPSK       | 1       | 1         | 13.80                 | 13.79                    | 13.83                  |                     |          |          |

| Part270_q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |          |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 633000                | 633332                   |                        |                     |          |          |
| 100                 | PI2 BPSK   | 1       | 1         |                       | 14.28                    |                        |                     |          |          |
| 100                 | PI2 BPSK   | 1       | 137       |                       | 13.91                    |                        | 15.5                |          | 0.0      |
| 100                 | PI2 BPSK   | 1       | 271       |                       | 13.99                    |                        |                     |          |          |
| 100                 | PI2 BPSK   | 135     | 0         |                       | 14.00                    |                        | 15.5                |          | 0.0      |
| 100                 | PI2 BPSK   | 135     | 69        |                       | 14.00                    |                        | 15.5                |          | 0.0      |
| 100                 | PI2 BPSK   | 135     | 138       |                       | 13.85                    |                        |                     |          |          |
| 100                 | PI2 BPSK   | 270     | 0         |                       | 13.95                    |                        | 15.5                |          | 0.0      |
| 100                 | QPSK       | 1       | 1         |                       | 14.30                    |                        |                     |          |          |
| 100                 | QPSK       | 1       | 137       |                       | 13.98                    |                        | 15.5                |          | 0.0      |
| 100                 | QPSK       | 1       | 271       |                       | 14.00                    |                        |                     |          |          |
| 100                 | QPSK       | 135     | 0         |                       | 13.98                    |                        |                     |          |          |
| 100                 | QPSK       | 135     | 69        |                       | 14.12                    |                        | 15.5                |          | 0.0      |
| 100                 | QPSK       | 135     | 138       |                       | 13.93                    |                        |                     |          |          |
| 100                 | QPSK       | 270     | 0         |                       | 14.11                    |                        | 15.5                |          | 0.0      |
| 100                 | 16QAM      | 1       | 1         |                       | 13.88                    |                        | 15.5                |          | 0.0      |
| 100                 | 64QAM      | 1       | 1         |                       | 13.96                    |                        | 15.5                |          | 0.0      |
| 100                 | 256QAM     | 1       | 1         |                       | 13.96                    |                        | 15.5                |          | 0.0      |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     | 15.5     | 0.0      |
| 90                  | QPSK       | 1       | 1         | 14.19                 | 14.24                    | 14.24                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3490.02               | 3499.98                  | 3500                   |                     | 15.5     | 0.0      |
| 80                  | QPSK       | 1       | 1         | 14.22                 | 14.28                    | 14.26                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     | 15.5     | 0.0      |
| 70                  | QPSK       | 1       | 1         | 14.24                 | 14.22                    | 14.24                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3480                  | 3499.98                  | 3518.99                |                     | 15.5     | 0.0      |
| 60                  | QPSK       | 1       | 1         | 14.26                 | 14.28                    | 14.24                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     | 15.5     | 0.0      |
| 50                  | QPSK       | 1       | 1         | 14.20                 | 14.24                    | 14.27                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     | 15.5     | 0.0      |
| 40                  | QPSK       | 1       | 1         | 14.25                 | 14.22                    | 14.25                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     | 15.5     | 0.0      |
| 30                  | QPSK       | 1       | 1         | 14.21                 | 14.21                    | 14.27                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     | 15.5     | 0.0      |
| 20                  | QPSK       | 1       | 1         | 14.27                 | 14.19                    | 14.24                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 630300                | 633332                   | 636366                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     | 15.5     | 0.0      |
| 15                  | QPSK       | 1       | 1         | 14.21                 | 14.27                    | 14.18                  | 15.5                |          |          |
| Channel             |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)     |            |         |           | 630000                | 633332                   | 636332                 | Tune-up limit (dBm) |          | MPR (dB) |
|                     |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     | 15.5     | 0.0      |
| 10                  | QPSK       | 1       | 1         | 14.19                 | 14.21                    | 14.24                  | 15.5                |          |          |

| Part270_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |          |
| Channel           |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)   |            |         |           | 650000                | 659000                   | 662000                 |                     |          |          |
|                   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |          |
| 100               | PI2 BPSK   | 1       | 1         | 14.66                 | 14.51                    | 14.53                  |                     |          |          |
| 100               | PI2 BPSK   | 1       | 137       | 14.74                 | 14.54                    | 14.54                  | 15.5                |          | 0.0      |
| 100               | PI2 BPSK   | 1       | 271       | 14.68                 | 14.52                    | 14.47                  |                     |          |          |
| 100               | PI2 BPSK   | 135     | 0         | 14.66                 | 14.50                    | 14.26                  | 15.5                |          | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        | 14.69                 | 14.48                    | 14.37                  | 15.5                |          | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       | 14.72                 | 14.54                    | 14.30                  |                     |          |          |
| 100               | PI2 BPSK   | 270     | 0         | 14.70                 | 14.49                    | 14.27                  | 15.5                |          | 0.0      |
| 100               | QPSK       | 1       | 1         | 14.68                 | 14.70                    | 14.65                  |                     |          |          |
| 100               | QPSK       | 1       | 137       | 14.66                 | 14.65                    | 14.43                  | 15.5                |          | 0.0      |
| 100               | QPSK       | 1       | 271       | 14.61                 | 14.62                    | 14.41                  |                     |          |          |
| 100               | QPSK       | 135     | 0         | 14.65                 | 14.73                    | 14.57                  |                     |          |          |
| 100               | QPSK       | 135     | 69        | 14.66                 | 14.75                    | 14.60                  | 15.5                |          | 0.0      |
| 100               | QPSK       | 135     | 138       | 14.69                 | 14.63                    | 14.39                  |                     |          |          |
| 100               | QPSK       | 270     | 0         | 14.69                 | 14.72                    | 14.37                  | 15.5                |          | 0.0      |
| 100               | 16QAM      | 1       | 1         | 14.73                 | 14.57                    | 14.53                  | 15.5                |          | 0.0      |
| 100               | 64QAM      | 1       | 1         | 14.73                 | 14.57                    | 14.50                  | 15.5                |          | 0.0      |
| 100               | 256QAM     | 1       | 1         | 14.71                 | 14.63                    | 14.37                  | 15.5                |          | 0.0      |
| Channel           |            |         |           |                       |                          |                        |                     |          |          |
| Frequency (MHz)   |            |         |           | 650000                | 659000                   | 662000                 |                     |          |          |
|                   |            |         |           | 3745.02               | 3840                     | 3934.98                | Tune-up limit (dBm) |          |          |
|                   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |          |
| 90                | QPSK       | 1       | 1         | 14.63                 | 14.70                    | 14.58                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 649334                | 659000                   | 662666                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3840                  | 3934.98                  | 3934.98                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3840                  | 3934.98                  | 3934.98                |                     |          |          |
| 80                | QPSK       | 1       | 1         | 14.60                 | 14.72                    | 14.60                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 649600                | 656000                   | 663000                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |          |
| 70                | QPSK       | 1       | 1         | 14.62                 | 14.69                    | 14.67                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 649800                | 654000                   | 663133                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |          |
| 60                | QPSK       | 1       | 1         | 14.64                 | 14.65                    | 14.63                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 649334                | 659000                   | 663666                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3954.98                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3740.01               | 3840                     | 3954.98                |                     |          |          |
| 50                | QPSK       | 1       | 1         | 14.57                 | 14.66                    | 14.57                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 648800                | 656000                   | 664000                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |          |
| 40                | QPSK       | 1       | 1         | 14.66                 | 14.71                    | 14.54                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 649200                | 654000                   | 664333                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |          |
| 30                | QPSK       | 1       | 1         | 14.60                 | 14.69                    | 14.61                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3969.98                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3740.01               | 3840                     | 3969.98                |                     |          |          |
| 20                | QPSK       | 1       | 1         | 14.57                 | 14.68                    | 14.61                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 647166                | 656000                   | 664833                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |          |
| 15                | QPSK       | 1       | 1         | 14.66                 | 14.72                    | 14.57                  | 15.5                |          | 0.0      |
| Channel           |            |         |           | 647000                | 654000                   | 664933                 |                     |          |          |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   | Tune-up limit (dBm) |          | MPR (dB) |
|                   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |          |
| 10                | QPSK       | 1       | 1         | 14.63                 | 14.68                    | 14.62                  | 15.5                |          | 0.0      |



| Part270_n77 HPUE_Ant 7 |                 |         |           |                           |                              |                            |                    |             |  |
|------------------------|-----------------|---------|-----------|---------------------------|------------------------------|----------------------------|--------------------|-------------|--|
| BW (MHz)               | Modulation      | RB Size | RB Offset | Power<br>Low<br>Ch./ Freq | Power<br>Middle<br>Ch./ Freq | Power<br>High<br>Ch./ Freq | Tune-up limit (dB) | MPR<br>(dB) |  |
|                        | Channel         |         |           | 66000                     | 66000                        | 66000                      |                    |             |  |
|                        | Frequency (Mz)  |         |           | 3735                      | 3840                         | 3945                       |                    |             |  |
| 100                    | PS2 BPSK        | 1       | 1         | 1468                      | 1451                         | 1435                       |                    |             |  |
| 100                    | PS2 BPSK        | 1       | 137       | 1474                      | 1454                         | 1434                       | 15.5               | 0.0         |  |
| 100                    | PS2 BPSK        | 1       | 271       | 1468                      | 1472                         | 1447                       |                    |             |  |
| 100                    | PS2 BPSK        | 135     | 0         | 1466                      | 1450                         | 1426                       |                    |             |  |
| 100                    | PS2 BPSK        | 135     | 69        | 1469                      | 1448                         | 1437                       | 15.5               | 0.0         |  |
| 100                    | PS2 BPSK        | 135     | 138       | 1472                      | 1454                         | 1430                       |                    |             |  |
| 100                    | QPSK            | 270     | 0         | 1470                      | 1460                         | 1447                       | 15.5               | 0.0         |  |
| 100                    | QPSK            | 1       | 1         | 1469                      | 1478                         | 1455                       |                    |             |  |
| 100                    | QPSK            | 1       | 137       | 1466                      | 1465                         | 1443                       | 15.5               | 0.0         |  |
| 100                    | QPSK            | 1       | 271       | 1461                      | 1462                         | 1441                       |                    |             |  |
| 100                    | QPSK            | 135     | 0         | 1473                      | 1467                         | 1437                       |                    |             |  |
| 100                    | QPSK            | 135     | 69        | 1469                      | 1475                         | 1450                       | 15.5               | 0.0         |  |
| 100                    | QPSK            | 135     | 138       | 1461                      | 1463                         | 1456                       |                    |             |  |
| 100                    | QPSK            | 270     | 0         | 1468                      | 1472                         | 1437                       | 15.5               | 0.0         |  |
| 100                    | 16QAM           | 1       | 1         | 1473                      | 1457                         | 1433                       | 15.5               | 0.0         |  |
| 100                    | 64QAM           | 1       | 1         | 1473                      | 1457                         | 1430                       | 15.5               | 0.0         |  |
| 100                    | 256QAM          | 1       | 1         | 1471                      | 1463                         | 1437                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 66966                     | 66000                        | 66232                      |                    |             |  |
|                        | Frequency (Mz)  |         |           | 3745.02                   | 3840                         | 3934.98                    | Tune-up limit (dB) | MPR (dB)    |  |
| 90                     | QPSK            | 1       | 1         | 1463                      | 1470                         | 1458                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 669334                    | 660000                       | 669666                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3749.01                   | 3840                         | 3939.99                    | Tune-up limit (dB) | MPR (dB)    |  |
| 80                     | QPSK            | 1       | 1         | 1460                      | 1472                         | 1460                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 669000                    | 660000                       | 669000                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3735                      | 3840                         | 3930                       | Tune-up limit (dB) | MPR (dB)    |  |
| 70                     | QPSK            | 1       | 1         | 1462                      | 1470                         | 1457                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 668668                    | 660000                       | 669332                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3730.02                   | 3840                         | 3949.98                    | Tune-up limit (dB) | MPR (dB)    |  |
| 60                     | QPSK            | 1       | 1         | 1454                      | 1465                         | 1453                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 668334                    | 660000                       | 669000                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3725.01                   | 3840                         | 3954.99                    | Tune-up limit (dB) | MPR (dB)    |  |
| 50                     | QPSK            | 1       | 1         | 1457                      | 1466                         | 1457                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 668000                    | 660000                       | 668000                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3720                      | 3840                         | 3960                       | Tune-up limit (dB) | MPR (dB)    |  |
| 40                     | QPSK            | 1       | 1         | 1466                      | 1471                         | 1454                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 667668                    | 660000                       | 668332                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3715.02                   | 3840                         | 3964.98                    | Tune-up limit (dB) | MPR (dB)    |  |
| 30                     | QPSK            | 1       | 1         | 1460                      | 1459                         | 1451                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 667334                    | 660000                       | 668666                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3710.01                   | 3840                         | 3969.99                    | Tuneup limit (dB)  | MPR (dB)    |  |
| 20                     | QPSK            | 1       | 1         | 1457                      | 1468                         | 1461                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 667000                    | 660000                       | 667000                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3707.52                   | 3840                         | 3972.48                    | Tune-up limit (dB) | MPR (dB)    |  |
| 15                     | QPSK            | 1       | 1         | 1468                      | 1472                         | 1457                       | 15.5               | 0.0         |  |
|                        | Channel         |         |           | 667000                    | 660000                       | 668000                     |                    |             |  |
|                        | Frequency (MHz) |         |           | 3705                      | 3840                         | 3975                       | Tune-up limit (dB) | MPR (dB)    |  |
| 10                     | QPSK            | 1       | 1         | 1463                      | 1468                         | 1462                       | 15.5               | 0.0         |  |

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|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|--------------------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq |                    |
| Channel            |            |         |           | 633352              | 633352                 | 633352               |                    |
| Frequency (MHz)    |            |         |           | 1043                | 1043                   | 1043                 |                    |
| 100                | PQPSK      | 1       | 1         | 1043                | 1043                   | 1043                 |                    |
| 100                | PQPSK      | 1       | 137       | 1038                | 1038                   | 1038                 | 11.5               |
| 100                | PQPSK      | 1       | 271       | 1033                | 1033                   | 1033                 | 11.5               |
| 100                | PQPSK      | 135     | 9         | 1034                | 1034                   | 1034                 | 11.5               |
| 100                | PQPSK      | 135     | 69        | 1030                | 1030                   | 1030                 | 11.5               |
| 100                | PQPSK      | 135     | 138       | 1038                | 1038                   | 1038                 | 11.5               |
| 100                | PQPSK      | 270     | 0         | 1036                | 1036                   | 1036                 | 11.5               |
| 100                | QPSK       | 1       | 1         | 1043                | 1043                   | 1043                 |                    |
| 100                | QPSK       | 1       | 137       | 1038                | 1038                   | 1038                 | 11.5               |
| 100                | QPSK       | 1       | 271       | 1033                | 1033                   | 1033                 | 11.5               |
| 100                | QPSK       | 135     | 9         | 1034                | 1034                   | 1034                 | 11.5               |
| 100                | QPSK       | 135     | 69        | 1030                | 1030                   | 1030                 | 11.5               |
| 100                | QPSK       | 135     | 138       | 1038                | 1038                   | 1038                 | 11.5               |
| 100                | QPSK       | 270     | 0         | 1037                | 1037                   | 1037                 | 11.5               |
| 100                | 16QAM      | 1       | 1         | 1043                | 1043                   | 1043                 | 11.5               |
| 100                | 64QAM      | 1       | 1         | 1043                | 1043                   | 1043                 | 11.5               |
| 100                | 256QAM     | 1       | 1         | 1043                | 1043                   | 1043                 | 11.5               |
| Channel            |            |         |           | 633060              | 633352                 | 633666               |                    |
| Frequency (MHz)    |            |         |           | 3495                | 3495.98                | 3504.98              | Turnup limit (dBm) |
| 90                 | QPSK       | 1       | 1         | 1043                | 1047                   | 1038                 | 11.5               |
| Channel            |            |         |           | 635068              | 633352                 | 634000               |                    |
| Frequency (MHz)    |            |         |           | 3502                | 3494.98                | 3510                 | Turnup limit (dBm) |
| 80                 | QPSK       | 1       | 1         | 1044                | 1039                   | 1047                 | 11.5               |
| Channel            |            |         |           | 632334              | 633352                 | 634352               |                    |
| Frequency (MHz)    |            |         |           | 3485.01             | 3499.98                | 3514.98              | Turnup limit (dBm) |
| 70                 | QPSK       | 1       | 1         | 1043                | 1048                   | 1043                 | 11.5               |
| Channel            |            |         |           | 632000              | 633352                 | 634666               |                    |
| Frequency (MHz)    |            |         |           | 3480                | 3499.98                | 3519.98              | Turnup limit (dBm) |
| 60                 | QPSK       | 1       | 1         | 1042                | 1042                   | 1043                 | 11.5               |
| Channel            |            |         |           | 631968              | 633352                 | 635000               |                    |
| Frequency (MHz)    |            |         |           | 3475.02             | 3499.98                | 3505                 | Turnup limit (dBm) |
| 50                 | QPSK       | 1       | 1         | 1042                | 1039                   | 1048                 | 11.5               |
| Channel            |            |         |           | 631384              | 633352                 | 635352               |                    |
| Frequency (MHz)    |            |         |           | 3470.01             | 3499.98                | 3524.98              | Turnup limit (dBm) |
| 40                 | QPSK       | 1       | 1         | 1040                | 1047                   | 1048                 | 11.5               |
| Channel            |            |         |           | 631900              | 633352                 | 636066               |                    |
| Frequency (MHz)    |            |         |           | 3465                | 3499.98                | 3529.98              | Turnup limit (dBm) |
| 30                 | QPSK       | 1       | 1         | 1040                | 1039                   | 1040                 | 11.5               |
| Channel            |            |         |           | 630668              | 633352                 | 636000               |                    |
| Frequency (MHz)    |            |         |           | 3460.02             | 3499.98                | 3540                 | Turnup limit (dBm) |
| 20                 | QPSK       | 1       | 1         | 1044                | 1038                   | 1041                 | 11.5               |
| Channel            |            |         |           | 635903              | 633352                 | 637352               |                    |
| Frequency (MHz)    |            |         |           | 3457.5              | 3499.98                | 3542.49              | Turnup limit (dBm) |
| 15                 | QPSK       | 1       | 1         | 1041                | 1039                   | 1042                 | 11.5               |
| Channel            |            |         |           | 630524              | 633352                 | 636900               |                    |
| Frequency (MHz)    |            |         |           | 3455.91             | 3499.98                | 3544.98              | Turnup limit (dBm) |
| 10                 | QPSK       | 1       | 1         | 1045                | 1042                   | 1047                 | 11.5               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 9.58                  | 9.67                     | 9.51                   |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 9.77                  | 9.77                     | 9.79                   |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 9.68                  | 9.80                     | 9.76                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 9         | 9.76                  | 9.73                     | 9.71                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 9.74                  | 9.86                     | 9.79                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 9.75                  | 9.87                     | 9.76                   |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 9.75                  | 9.80                     | 9.70                   | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 9.75                  | 9.89                     | 9.79                   |                     |          |
| 100             | QPSK       | 1       | 137       | 9.74                  | 9.82                     | 9.71                   | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 9.72                  | 9.87                     | 9.72                   |                     |          |
| 100             | QPSK       | 135     | 0         | 9.66                  | 9.78                     | 9.63                   |                     |          |
| 100             | QPSK       | 135     | 69        | 9.75                  | 9.85                     | 9.77                   | 11.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 9.75                  | 9.79                     | 9.63                   |                     |          |
| 100             | QPSK       | 270     | 0         | 9.89                  | 9.83                     | 9.79                   | 11.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 9.65                  | 9.79                     | 9.78                   | 11.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 9.72                  | 9.89                     | 9.79                   | 11.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 9.83                  | 9.79                     | 9.65                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 9.67                  | 9.82                     | 9.68                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 9.68                  | 9.83                     | 9.71                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 9.73                  | 9.79                     | 9.76                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 9.64                  | 9.80                     | 9.70                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 9.69                  | 9.84                     | 9.68                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 9.70                  | 9.87                     | 9.74                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 9.70                  | 9.87                     | 9.74                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 9.73                  | 9.79                     | 9.71                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 9.73                  | 9.82                     | 9.77                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 9.70                  | 9.85                     | 9.77                   | 11.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         |                       | 10.40                    |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       |                       | 10.38                    |                        | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 1       | 271       |                       | 10.26                    |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         |                       | 10.34                    |                        | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        |                       | 10.30                    |                        | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       |                       | 10.38                    |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         |                       | 10.26                    |                        | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 10.49                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 10.38                    |                        | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 10.25                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 10.37                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 10.47                    |                        | 11.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 10.37                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 10.30                    |                        | 11.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 10.27                    |                        | 11.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 10.26                    |                        | 11.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 10.28                    |                        | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 634000                | 633332                   | 634668                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 633668                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631000                | 633332                   | 633000                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 632666                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 630500                | 633332                   | 633000                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630000                | 633332                   | 633666                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 633666                 | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630500                | 633332                   | 633666                 | 11.5                | 0.0      |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 9.58                  | 9.67                     | 9.51                   |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 9.77                  | 9.77                     | 9.79                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 1       | 271       | 9.68                  | 9.80                     | 9.76                   |                     |          |
| 100             | PI2 BPSK   | 135     | 9         | 9.76                  | 9.73                     | 9.71                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 9.74                  | 9.86                     | 9.79                   | 11.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 9.75                  | 9.87                     | 9.76                   |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 9.75                  | 9.80                     | 9.70                   | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 9.75                  | 9.89                     | 9.79                   |                     |          |
| 100             | QPSK       | 1       | 137       | 9.74                  | 9.82                     | 9.71                   | 11.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 9.72                  | 9.87                     | 9.72                   |                     |          |
| 100             | QPSK       | 135     | 0         | 9.66                  | 9.78                     | 9.63                   |                     |          |
| 100             | QPSK       | 135     | 69        | 9.75                  | 9.85                     | 9.77                   | 11.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 9.75                  | 9.79                     | 9.63                   |                     |          |
| 100             | QPSK       | 270     | 0         | 9.80                  | 9.83                     | 9.79                   | 11.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 9.65                  | 9.79                     | 9.78                   | 11.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 9.72                  | 9.88                     | 9.79                   | 11.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 9.83                  | 9.79                     | 9.65                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 9.67                  | 9.82                     | 9.68                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 9.68                  | 9.83                     | 9.71                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 9.73                  | 9.79                     | 9.76                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 9.64                  | 9.80                     | 9.70                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 9.69                  | 9.84                     | 9.68                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 9.70                  | 9.87                     | 9.74                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 9.70                  | 9.87                     | 9.74                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 9.73                  | 9.79                     | 9.71                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 9.73                  | 9.82                     | 9.77                   | 11.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 9.70                  | 9.85                     | 9.77                   | 11.5                | 0.0      |



| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         |                       | 12.12                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 12.22                    |                        | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 12.16                    |                        |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 12.23                    |                        | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 12.20                    |                        | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 12.25                    |                        | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 12.19                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 1         |                       | 12.20                    |                        |                     |          |      |
| 100               | QPSK       | 1       | 137       |                       | 12.20                    |                        | 13.5                | 0.0      |      |
| 100               | QPSK       | 1       | 271       |                       | 12.19                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 0         |                       | 12.22                    |                        | 13.5                | 0.0      |      |
| 100               | QPSK       | 135     | 69        |                       | 12.24                    |                        |                     |          |      |
| 100               | QPSK       | 135     | 138       |                       | 12.17                    |                        |                     |          |      |
| 100               | QPSK       | 270     | 0         |                       | 12.17                    |                        | 13.5                | 0.0      |      |
| 100               | 16QAM      | 1       | 1         |                       | 12.17                    |                        | 13.5                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         |                       | 12.21                    |                        | 13.5                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         |                       | 12.23                    |                        | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      | (dB) |
| 90                | QPSK       | 1       | 1         | 12.21                 | 12.18                    | 12.21                  | 13.5                | 0.0      |      |
| Channel           |            |         |           | 633098                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 3495.02               | 3499.98                  | 3505.00                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.21                 | 12.24                    | 12.13                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 632634                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 70                | QPSK       | 1       | 1         | 3495.01               | 3499.98                  | 3514.98                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.19                 | 12.20                    | 12.22                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 632200                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      | (dB) |
| 60                | QPSK       | 1       | 1         | 3490.02               | 3499.98                  | 3510.99                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.16                 | 12.19                    | 12.24                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 50                | QPSK       | 1       | 1         | 3495.02               | 3499.98                  | 3505.00                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.22                 | 12.16                    | 12.24                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 40                | QPSK       | 1       | 1         | 3470.01               | 3499.98                  | 3520.98                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.23                 | 12.21                    | 12.24                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 630998                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 30                | QPSK       | 1       | 1         | 3470.00               | 3499.98                  | 3520.99                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.22                 | 12.18                    | 12.22                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 630666                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 20                | QPSK       | 1       | 1         | 3465.99               | 3499.98                  | 3540.99                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.15                 | 12.23                    | 12.24                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR      | (dB) |
| 15                | QPSK       | 1       | 1         | 3457.5                | 3499.98                  | 3542.49                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.23                 | 12.16                    | 12.21                  | 13.5                | 0.0      |      |
| Frequency (MHz)   |            |         |           | 630000                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 10                | QPSK       | 1       | 1         | 3455.01               | 3499.98                  | 3544.98                | 13.5                | 0.0      |      |
| Channel           |            |         |           | 12.21                 | 12.19                    | 12.18                  | 13.5                | 0.0      |      |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |      |
| 100               | PI2 BPSK   | 1       | 1         | 12.00                 | 12.11                    | 12.12                  |                     |          |      |
| 100               | PI2 BPSK   | 1       | 137       | 12.01                 | 12.25                    | 12.11                  | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 1       | 271       | 12.08                 | 12.16                    | 12.21                  |                     |          |      |
| 100               | PI2 BPSK   | 135     | 0         | 12.09                 | 12.20                    | 12.26                  | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 69        | 12.01                 | 12.19                    | 12.15                  | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 135     | 138       | 11.97                 | 12.14                    | 12.16                  | 13.5                | 0.0      |      |
| 100               | PI2 BPSK   | 270     | 0         | 12.12                 | 12.21                    | 12.15                  |                     |          |      |
| 100               | QPSK       | 1       | 1         | 12.20                 | 12.32                    | 12.30                  |                     |          |      |
| 100               | QPSK       | 1       | 137       | 11.83                 | 12.28                    | 12.11                  | 13.5                | 0.0      |      |
| 100               | QPSK       | 1       | 271       | 12.05                 | 12.21                    | 12.15                  |                     |          |      |
| 100               | QPSK       | 135     | 0         | 12.00                 | 12.19                    | 12.00                  | 13.5                | 0.0      |      |
| 100               | QPSK       | 135     | 69        | 12.02                 | 12.26                    | 12.12                  |                     |          |      |
| 100               | QPSK       | 135     | 138       | 11.96                 | 12.27                    | 12.01                  | 13.5                | 0.0      |      |
| 100               | QPSK       | 270     | 0         | 12.01                 | 12.24                    | 12.14                  | 13.5                | 0.0      |      |
| 100               | 16QAM      | 1       | 1         | 12.06                 | 12.12                    | 11.98                  | 13.5                | 0.0      |      |
| 100               | 64QAM      | 1       | 1         | 12.04                 | 12.21                    | 12.17                  | 13.5                | 0.0      |      |
| 100               | 256QAM     | 1       | 1         | 12.04                 | 12.13                    | 12.01                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646666                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 90                | QPSK       | 1       | 1         | 12.16                 | 12.27                    | 12.22                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646334                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 80                | QPSK       | 1       | 1         | 12.00                 | 12.24                    | 12.21                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646000                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 70                | QPSK       | 1       | 1         | 12.11                 | 12.26                    | 12.24                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 645666                | 656000                   | 661332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 60                | QPSK       | 1       | 1         | 12.18                 | 12.24                    | 12.21                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646334                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 50                | QPSK       | 1       | 1         | 12.13                 | 12.30                    | 12.22                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646000                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 40                | QPSK       | 1       | 1         | 12.18                 | 12.23                    | 12.22                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 645666                | 656000                   | 661332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 30                | QPSK       | 1       | 1         | 12.09                 | 12.23                    | 12.24                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 646334                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 20                | QPSK       | 1       | 1         | 12.15                 | 12.26                    | 12.23                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR      | (dB) |
| 15                | QPSK       | 1       | 1         | 12.16                 | 12.26                    | 12.20                  | 13.5                | 0.0      |      |
| Channel           |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)   |            |         |           | 647856                | 656000                   | 665184                 | Tune-up limit (dBm) | MPR      | (dB) |
| 10                | QPSK       | 1       | 1         | 12.11                 | 12.21                    | 12.19                  | 13.5                | 0.0      |      |

| Part27Q_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |      |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 633000                |                          | 633332                 |                     |          |      |
| 100                    | PI2 BPSK   | 1       | 1         |                       | 12.12                    |                        |                     |          |      |
| 100                    | PI2 BPSK   | 1       | 137       |                       | 12.22                    |                        | 13.5                | 0.0      |      |
| 100                    | PI2 BPSK   | 1       | 271       |                       | 12.16                    |                        |                     |          |      |
| 100                    | PI2 BPSK   | 135     | 0         |                       | 12.23                    |                        | 13.5                | 0.0      |      |
| 100                    | PI2 BPSK   | 135     | 69        |                       | 12.20                    |                        | 13.5                | 0.0      |      |
| 100                    | PI2 BPSK   | 135     | 138       |                       | 12.25                    |                        | 13.5                | 0.0      |      |
| 100                    | PI2 BPSK   | 270     | 0         |                       | 12.19                    |                        |                     |          |      |
| 100                    | QPSK       | 1       | 1         |                       | 12.20                    |                        |                     |          |      |
| 100                    | QPSK       | 1       | 137       |                       | 12.20                    |                        | 13.5                | 0.0      |      |
| 100                    | QPSK       | 1       | 271       |                       | 12.19                    |                        |                     |          |      |
| 100                    | QPSK       | 135     | 0         |                       | 12.22                    |                        | 13.5                | 0.0      |      |
| 100                    | QPSK       | 135     | 69        |                       | 12.24                    |                        |                     |          |      |
| 100                    | QPSK       | 135     | 138       |                       | 12.17                    |                        |                     |          |      |
| 100                    | QPSK       | 270     | 0         |                       | 12.17                    |                        | 13.5                | 0.0      |      |
| 100                    | 16QAM      | 1       | 1         |                       | 12.17                    |                        | 13.5                | 0.0      |      |
| 100                    | 64QAM      | 1       | 1         |                       | 12.21                    |                        | 13.5                | 0.0      |      |
| 100                    | 256QAM     | 1       | 1         |                       | 12.23                    |                        | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR      | (dB) |
| 90                     | QPSK       | 1       | 1         | 12.21                 | 12.18                    | 12.21                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 80                     | QPSK       | 1       | 1         | 12.21                 | 12.24                    | 12.16                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 70                     | QPSK       | 1       | 1         | 12.19                 | 12.20                    | 12.22                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR      | (dB) |
| 60                     | QPSK       | 1       | 1         | 12.16                 | 12.19                    | 12.24                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 50                     | QPSK       | 1       | 1         | 12.22                 | 12.16                    | 12.24                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 40                     | QPSK       | 1       | 1         | 12.23                 | 12.21                    | 12.24                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR      | (dB) |
| 30                     | QPSK       | 1       | 1         | 12.22                 | 12.18                    | 12.22                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR      | (dB) |
| 20                     | QPSK       | 1       | 1         | 12.19                 | 12.23                    | 12.24                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR      | (dB) |
| 15                     | QPSK       | 1       | 1         | 12.23                 | 12.16                    | 12.21                  | 13.5                | 0.0      |      |
| Channel                |            |         |           |                       |                          |                        |                     |          |      |
| Frequency (MHz)        |            |         |           | 630004                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR      | (dB) |
| 10                     | QPSK       | 1       | 1         | 12.21                 | 12.19                    | 12.18                  | 13.5                | 0.0      |      |



| Part270_n77 HPUE_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 1         | 12.00                 | 12.11                    | 12.12                  | 13.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 137       | 12.01                 | 12.25                    | 12.11                  |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 12.08                 | 12.16                    | 12.21                  |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 12.09                 | 12.20                    | 12.28                  |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 69        | 12.01                 | 12.19                    | 12.15                  | 13.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 11.97                 | 12.14                    | 12.16                  | 13.5                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 12.12                 | 12.21                    | 12.15                  |                     |          |  |
| 100                    | QPSK       | 1       | 1         | 12.00                 | 12.32                    | 12.30                  |                     |          |  |
| 100                    | QPSK       | 1       | 137       | 11.93                 | 12.29                    | 12.11                  |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 12.05                 | 12.21                    | 12.15                  | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 0         | 12.00                 | 12.19                    | 12.00                  |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 12.00                 | 12.28                    | 12.12                  |                     |          |  |
| 100                    | QPSK       | 135     | 138       | 11.96                 | 12.27                    | 12.01                  |                     |          |  |
| 100                    | QPSK       | 270     | 0         | 12.01                 | 12.24                    | 12.14                  | 13.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 12.06                 | 12.12                    | 11.98                  | 13.5                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 12.04                 | 12.21                    | 12.17                  | 13.5                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 12.04                 | 12.13                    | 12.01                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 12.15                 | 12.27                    | 12.22                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 12.09                 | 12.24                    | 12.21                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 12.11                 | 12.26                    | 12.24                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 12.18                 | 12.24                    | 12.21                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 12.13                 | 12.20                    | 12.22                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 12.18                 | 12.23                    | 12.22                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 12.09                 | 12.23                    | 12.24                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 12.15                 | 12.25                    | 12.23                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 12.16                 | 12.26                    | 12.20                  | 13.5                | 0.0      |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 12.11                 | 12.21                    | 12.19                  | 13.5                | 0.0      |  |

| Part27Q_n78_Ant 4 |            |         |           |                       |                          |                        |      |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |      | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 11.56                    |                        |      | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 11.48                    |                        |      |                     |          |
| 100               | PI2 BPSK   | 1       | 271       |                       | 11.31                    |                        |      |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                       | 11.30                    |                        |      |                     |          |
| 100               | PI2 BPSK   | 135     | 69        |                       | 11.30                    |                        |      | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 11.43                    |                        |      | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 11.30                    |                        |      |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 11.57                    |                        |      |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 11.32                    |                        |      |                     |          |
| 100               | QPSK       | 1       | 271       |                       | 11.32                    |                        |      | 13.0                | 0.0      |
| 100               | QPSK       | 135     | 0         |                       | 11.31                    |                        |      |                     |          |
| 100               | QPSK       | 135     | 69        |                       | 11.41                    |                        |      |                     |          |
| 100               | QPSK       | 135     | 138       |                       | 11.28                    |                        |      |                     |          |
| 100               | QPSK       | 270     | 0         |                       | 11.35                    |                        |      | 13.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                       | 11.33                    |                        |      | 13.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 11.36                    |                        |      | 13.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 11.27                    |                        |      | 13.0                | 0.0      |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 90                | QPSK       | 1       | 1         | 63300                 | 63302                    | 63366                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3495                  | 3499.98                  | 3504.99                |      |                     |          |
| 90                | QPSK       | 1       | 1         | 11.50                 | 11.52                    | 11.53                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 80                | QPSK       | 1       | 1         | 63268                 | 63332                    | 63400                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 34852                 | 3499.98                  | 3504.99                |      |                     |          |
| 80                | QPSK       | 1       | 1         | 11.43                 | 11.55                    | 11.47                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 70                | QPSK       | 1       | 1         | 63234                 | 63332                    | 63432                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 34851                 | 3499.98                  | 3514.98                |      |                     |          |
| 70                | QPSK       | 1       | 1         | 11.50                 | 11.46                    | 11.49                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 60                | QPSK       | 1       | 1         | 63168                 | 63332                    | 63432                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 34852                 | 3499.98                  | 3514.98                |      |                     |          |
| 60                | QPSK       | 1       | 1         | 11.53                 | 11.51                    | 11.50                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 50                | QPSK       | 1       | 1         | 63186                 | 63332                    | 63390                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 34852                 | 3499.98                  | 3504.99                |      |                     |          |
| 50                | QPSK       | 1       | 1         | 11.49                 | 11.52                    | 11.51                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 40                | QPSK       | 1       | 1         | 63134                 | 63332                    | 63532                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |      |                     |          |
| 40                | QPSK       | 1       | 1         | 11.48                 | 11.50                    | 11.54                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 30                | QPSK       | 1       | 1         | 63100                 | 63332                    | 63598                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3485                  | 3499.98                  | 3534.99                |      |                     |          |
| 30                | QPSK       | 1       | 1         | 11.51                 | 11.55                    | 11.51                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 20                | QPSK       | 1       | 1         | 63068                 | 63332                    | 63600                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3483.92               | 3499.98                  | 3549.99                |      |                     |          |
| 20                | QPSK       | 1       | 1         | 11.55                 | 11.53                    | 11.53                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 15                | QPSK       | 1       | 1         | 63050                 | 63332                    | 63666                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |      |                     |          |
| 15                | QPSK       | 1       | 1         | 11.46                 | 11.46                    | 11.49                  | 13.0 | 0.0                 |          |
| Channel           |            |         |           |                       |                          |                        |      |                     |          |
| Frequency (MHz)   |            |         |           |                       |                          |                        |      |                     |          |
| 10                | QPSK       | 1       | 1         | 63034                 | 63332                    | 63718                  |      | Tune-up limit (dBm) | MPR (dB) |
|                   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |      |                     |          |
| 10                | QPSK       | 1       | 1         | 11.50                 | 11.53                    | 11.54                  | 13.0 | 0.0                 |          |

| Part270_n78_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 11.78                    |                        | 13.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 11.92                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 11.74                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 11.85                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 11.63                    |                        | 13.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 11.72                    |                        | 13.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 11.70                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 12.01                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 11.61                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       |                       | 11.66                    |                        | 13.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         |                       | 11.68                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 11.54                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 11.66                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 11.72                    |                        | 13.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 11.86                    |                        | 13.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 11.66                    |                        | 13.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 11.78                    |                        | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 90                | QPSK       | 1       | 1         | 11.97                 | 11.93                    | 11.97                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 80                | QPSK       | 1       | 1         | 11.97                 | 11.91                    | 11.96                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 70                | QPSK       | 1       | 1         | 11.91                 | 11.96                    | 11.92                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 60                | QPSK       | 1       | 1         | 11.93                 | 11.90                    | 11.92                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 50                | QPSK       | 1       | 1         | 11.92                 | 11.90                    | 11.94                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 40                | QPSK       | 1       | 1         | 11.98                 | 11.90                    | 11.96                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 30                | QPSK       | 1       | 1         | 11.98                 | 11.96                    | 11.92                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 20                | QPSK       | 1       | 1         | 11.94                 | 11.97                    | 11.93                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 15                | QPSK       | 1       | 1         | 11.94                 | 11.93                    | 11.92                  | 13.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 10                | QPSK       | 1       | 1         | 11.91                 | 11.96                    | 11.96                  | 13.0                | 0.0      |  |



| Part27Q_n78 HPUE_Ant 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)        |            |         |           | 3499.98               |                          |                        | 13.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 1       | 1         | 11.56                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 137       | 11.48                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 1       | 271       | 11.31                 |                          |                        |                     |          |  |
| 100                    | PI2 BPSK   | 135     | 0         | 11.30                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 69        | 11.30                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 135     | 138       | 11.43                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | PI2 BPSK   | 270     | 0         | 11.30                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 1         | 11.57                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       | 11.32                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 11.32                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 11.31                 |                          |                        |                     |          |  |
| 100                    | QPSK       | 135     | 69        | 11.41                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 135     | 138       | 11.28                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | QPSK       | 270     | 0         | 11.35                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         | 11.23                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | 64QAM      | 1       | 1         | 11.36                 |                          |                        | 13.0                | 0.0      |  |
| 100                    | 256QAM     | 1       | 1         | 11.27                 |                          |                        | 13.0                | 0.0      |  |
| Channel                |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3495                  | 3499.98                  | 3504.99                | 13.0                | 0.0      |  |
| 90                     | QPSK       | 1       | 1         | 11.50                 | 11.52                    | 11.53                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3490.02               | 3499.98                  | 3510                   | 13.0                | 0.0      |  |
| 80                     | QPSK       | 1       | 1         | 11.48                 | 11.55                    | 11.47                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 3485.01               | 3499.98                  | 3514.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 13.0                | 0.0      |  |
| 70                     | QPSK       | 1       | 1         | 11.50                 | 11.46                    | 11.49                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                  | 3499.98                  | 3518.99                | 13.0                | 0.0      |  |
| 60                     | QPSK       | 1       | 1         | 11.53                 | 11.51                    | 11.50                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02               | 3499.98                  | 3525                   | 13.0                | 0.0      |  |
| 50                     | QPSK       | 1       | 1         | 11.49                 | 11.52                    | 11.51                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 13.0                | 0.0      |  |
| 40                     | QPSK       | 1       | 1         | 11.48                 | 11.50                    | 11.54                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465                  | 3499.98                  | 3534.99                | 13.0                | 0.0      |  |
| 30                     | QPSK       | 1       | 1         | 11.51                 | 11.55                    | 11.54                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02               | 3499.98                  | 3540                   | 13.0                | 0.0      |  |
| 20                     | QPSK       | 1       | 1         | 11.55                 | 11.53                    | 11.53                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 13.0                | 0.0      |  |
| 15                     | QPSK       | 1       | 1         | 11.46                 | 11.46                    | 11.49                  | 13.0                | 0.0      |  |
| Channel                |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 13.0                | 0.0      |  |
| 10                     | QPSK       | 1       | 1         | 11.50                 | 11.53                    | 11.54                  | 13.0                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 4 |            |         |           |                          |                                |                           |                        |             |  |
|------------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle Ch. /<br>Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                |            |         |           |                          |                                |                           |                        |             |  |
| Frequency (MHz)        |            |         |           | 650000                   |                                | 3750                      | 13.0                   | 0.0         |  |
| 100                    | PI2 BPSK   | 1       | 1         | 11.78                    |                                |                           |                        |             |  |
| 100                    | PI2 BPSK   | 1       | 137       | 11.92                    |                                |                           |                        |             |  |
| 100                    | PI2 BPSK   | 1       | 271       | 11.74                    |                                |                           |                        |             |  |
| 100                    | PI2 BPSK   | 135     | 0         | 11.65                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | PI2 BPSK   | 135     | 69        | 11.63                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | PI2 BPSK   | 135     | 138       | 11.72                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | PI2 BPSK   | 270     | 0         | 11.70                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 1       | 1         | 12.01                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 1       | 137       | 11.61                    |                                |                           |                        |             |  |
| 100                    | QPSK       | 1       | 271       | 11.66                    |                                |                           |                        |             |  |
| 100                    | QPSK       | 135     | 0         | 11.68                    |                                |                           |                        |             |  |
| 100                    | QPSK       | 135     | 69        | 11.84                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 135     | 138       | 11.66                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | QPSK       | 270     | 0         | 11.72                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | 16QAM      | 1       | 1         | 11.66                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | 64QAM      | 1       | 1         | 11.66                    |                                |                           | 13.0                   | 0.0         |  |
| 100                    | 256QAM     | 1       | 1         | 11.78                    |                                |                           | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648668                   | 650000                         | 650332                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3745.02                  | 3750                           | 3754.98                   | 13.0                   | 0.0         |  |
| 90                     | QPSK       | 1       | 1         | 11.97                    | 11.93                          | 11.97                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648334                   | 650000                         | 650666                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3740.01                  | 3750                           | 3759.99                   | 13.0                   | 0.0         |  |
| 80                     | QPSK       | 1       | 1         | 11.07                    | 11.91                          | 11.96                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648000                   | 650000                         | 651000                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3735                     | 3750                           | 3765                      | 13.0                   | 0.0         |  |
| 70                     | QPSK       | 1       | 1         | 11.91                    | 11.96                          | 11.92                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648668                   | 650000                         | 651332                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3730.02                  | 3750                           | 3760.98                   | 13.0                   | 0.0         |  |
| 60                     | QPSK       | 1       | 1         | 11.93                    | 11.90                          | 11.92                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648334                   | 650000                         | 651666                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3725.01                  | 3750                           | 3774.99                   | 13.0                   | 0.0         |  |
| 50                     | QPSK       | 1       | 1         | 11.05                    | 11.50                          | 11.84                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 648000                   | 650000                         | 652000                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3720                     | 3750                           | 3760                      | 13.0                   | 0.0         |  |
| 40                     | QPSK       | 1       | 1         | 11.98                    | 11.90                          | 11.96                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 647668                   | 650000                         | 652332                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3715.02                  | 3750                           | 3764.98                   | 13.0                   | 0.0         |  |
| 30                     | QPSK       | 1       | 1         | 11.98                    | 11.96                          | 11.92                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 647334                   | 650000                         | 652666                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3710.01                  | 3750                           | 3769.99                   | 13.0                   | 0.0         |  |
| 20                     | QPSK       | 1       | 1         | 11.94                    | 11.97                          | 11.93                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 647000                   | 650000                         | 653000                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3707.52                  | 3750                           | 3762.48                   | 13.0                   | 0.0         |  |
| 15                     | QPSK       | 1       | 1         | 11.94                    | 11.93                          | 11.93                     | 13.0                   | 0.0         |  |
| Channel                |            |         |           | 647000                   | 650000                         | 653000                    | Tune-up limit (dBm)    | MPR (dB)    |  |
| Frequency (MHz)        |            |         |           | 3705                     | 3750                           | 3795                      | 13.0                   | 0.0         |  |
| 10                     | QPSK       | 1       | 1         | 11.91                    | 11.96                          | 11.96                     | 13.0                   | 0.0         |  |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          | 3750                   | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 1         | 14.26                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 14.44                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 14.40                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 14.45                 |                          |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 14.27                 |                          |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 14.42                 |                          |                        | 15.5                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 14.44                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 14.58                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 137       | 14.37                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       | 14.39                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 14.44                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 14.50                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 14.42                 |                          |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 270     | 0         | 14.36                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 14.46                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 14.45                 |                          |                        | 15.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 14.32                 |                          |                        | 15.5                | 0.0      |  |
| Channel           |            |         |           | 633300                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 14.56                 | 14.52                    | 14.56                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 633668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3499.02               | 3499.98                  | 3501                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 14.50                 | 14.54                    | 14.48                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 632104                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3486.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 14.47                 | 14.49                    | 14.55                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 14.49                 | 14.52                    | 14.50                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3479.02               | 3499.98                  | 3520                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 14.52                 | 14.53                    | 14.55                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 14.53                 | 14.56                    | 14.51                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 631100                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 14.50                 | 14.53                    | 14.50                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 14.54                 | 14.51                    | 14.47                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630300                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 14.55                 | 14.47                    | 14.47                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 630104                | 633332                   | 636932                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | QPSK       | 1       | 1         | 14.51                 | 14.51                    | 14.56                  | 15.5                | 0.0      |  |





| Part270_n78_Ant 7    |            |         |           |                       |                          |                        |                     |          |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 3750                 |            |         |           |                       |                          |                        |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         |                       | 14.06                    |                        | 15.5                | 0.0      |  |
| 100                  | PI2 BPSK   | 1       | 137       |                       | 14.00                    |                        |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 271       |                       | 14.61                    |                        | 15.5                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 0         |                       | 14.58                    |                        |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 69        |                       | 14.62                    |                        | 15.5                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 138       |                       | 14.64                    |                        | 15.5                | 0.0      |  |
| 100                  | PI2 BPSK   | 270     | 0         |                       | 14.59                    |                        |                     |          |  |
| 100                  | QPSK       | 1       | 1         |                       | 14.07                    |                        | 15.5                | 0.0      |  |
| 100                  | QPSK       | 1       | 137       |                       | 14.59                    |                        |                     |          |  |
| 100                  | QPSK       | 1       | 271       |                       | 14.58                    |                        | 15.5                | 0.0      |  |
| 100                  | QPSK       | 135     | 0         |                       | 14.61                    |                        |                     |          |  |
| 100                  | QPSK       | 135     | 69        |                       | 14.65                    |                        | 15.5                | 0.0      |  |
| 100                  | QPSK       | 135     | 138       |                       | 14.54                    |                        |                     |          |  |
| 100                  | QPSK       | 270     | 0         |                       | 14.64                    |                        | 15.5                | 0.0      |  |
| 100                  | 16QAM      | 1       | 1         |                       | 14.58                    |                        | 15.5                | 0.0      |  |
| 100                  | 64QAM      | 1       | 1         |                       | 14.62                    |                        | 15.5                | 0.0      |  |
| 100                  | 256QAM     | 1       | 1         |                       | 14.64                    |                        | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 649668 650000 650332 |            |         |           |                       |                          |                        |                     |          |  |
| 3745.02 3750 3754.98 |            |         |           |                       |                          |                        |                     |          |  |
| 90                   | QPSK       | 1       | 1         | 14.58                 | 14.61                    | 14.62                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 649334 650000 650666 |            |         |           |                       |                          |                        |                     |          |  |
| 3740.01 3750 3760.99 |            |         |           |                       |                          |                        |                     |          |  |
| 80                   | QPSK       | 1       | 1         | 14.55                 | 14.64                    | 14.60                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 649000 650000 651000 |            |         |           |                       |                          |                        |                     |          |  |
| 3735 3750 3765       |            |         |           |                       |                          |                        |                     |          |  |
| 70                   | QPSK       | 1       | 1         | 14.64                 | 14.64                    | 14.64                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 648668 650000 651332 |            |         |           |                       |                          |                        |                     |          |  |
| 3730.02 3750 3760.98 |            |         |           |                       |                          |                        |                     |          |  |
| 60                   | QPSK       | 1       | 1         | 14.57                 | 14.61                    | 14.61                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 648334 650000 651666 |            |         |           |                       |                          |                        |                     |          |  |
| 3725.01 3750 3774.99 |            |         |           |                       |                          |                        |                     |          |  |
| 50                   | QPSK       | 1       | 1         | 14.60                 | 14.64                    | 14.61                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 648000 650000 652000 |            |         |           |                       |                          |                        |                     |          |  |
| 3720 3750 3780       |            |         |           |                       |                          |                        |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 14.57                 | 14.57                    | 14.64                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 647668 650000 652332 |            |         |           |                       |                          |                        |                     |          |  |
| 3715.02 3750 3784.98 |            |         |           |                       |                          |                        |                     |          |  |
| 30                   | QPSK       | 1       | 1         | 14.64                 | 14.65                    | 14.63                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 647334 650000 652666 |            |         |           |                       |                          |                        |                     |          |  |
| 3710.01 3750 3789.99 |            |         |           |                       |                          |                        |                     |          |  |
| 20                   | QPSK       | 1       | 1         | 14.57                 | 14.62                    | 14.61                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 647000 650000 653000 |            |         |           |                       |                          |                        |                     |          |  |
| 3705 3750 3795       |            |         |           |                       |                          |                        |                     |          |  |
| 15                   | QPSK       | 1       | 1         | 14.61                 | 14.65                    | 14.59                  | 15.5                | 0.0      |  |
| Channel              |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           |                       |                          |                        |                     |          |  |
| 646668 650000 653332 |            |         |           |                       |                          |                        |                     |          |  |
| 3700 3750 3795       |            |         |           |                       |                          |                        |                     |          |  |
| 10                   | QPSK       | 1       | 1         | 14.61                 | 14.59                    | 14.63                  | 15.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 7  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 1       | 1         | 14.08                 | 633332                   |                        | 15.5                | 0.0      |  |  |  |  |
| 14.26                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 14.44                    |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 14.40                    |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 14.45                    |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 14.27                    |                        |                     |          |  |  |  |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 14.42                    |                        | 15.5                | 0.0      |  |  |  |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 14.44                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 1       | 1         |                       | 14.58                    |                        | 15.5                | 0.0      |  |  |  |  |
| 100                     | QPSK       | 1       | 137       |                       | 14.37                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 1       | 271       |                       | 14.39                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 135     | 0         |                       | 14.44                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 135     | 69        |                       | 14.50                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 135     | 138       |                       | 14.42                    |                        |                     |          |  |  |  |  |
| 100                     | QPSK       | 270     | 0         |                       | 14.36                    |                        | 15.5                | 0.0      |  |  |  |  |
| 100                     | 16QAM      | 1       | 1         |                       | 14.46                    |                        | 15.5                | 0.0      |  |  |  |  |
| 100                     | 64QAM      | 1       | 1         |                       | 14.45                    |                        | 15.5                | 0.0      |  |  |  |  |
| 100                     | 256QAM     | 1       | 1         |                       | 14.32                    |                        | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 633000 633332 633666    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3465 3469.98 3504.99    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 90                      | QPSK       | 1       | 1         | 14.56                 | 14.52                    | 14.58                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 632668 633332 634000    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3460.02 3469.98 3510    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 80                      | QPSK       | 1       | 1         | 14.50                 | 14.54                    | 14.48                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 632334 633332 634332    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3455.01 3469.98 3514.98 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 70                      | QPSK       | 1       | 1         | 14.47                 | 14.49                    | 14.55                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 632000 633332 634666    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3450 3469.98 3519.99    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 60                      | QPSK       | 1       | 1         | 14.49                 | 14.52                    | 14.50                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 631668 633332 635000    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3445.02 3469.98 3524.99 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 50                      | QPSK       | 1       | 1         | 14.52                 | 14.53                    | 14.56                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 631334 633332 635332    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3470.01 3469.98 3529.98 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 40                      | QPSK       | 1       | 1         | 14.53                 | 14.56                    | 14.51                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 631000 633332 635666    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3465 3469.98 3534.99    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 30                      | QPSK       | 1       | 1         | 14.50                 | 14.53                    | 14.50                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 630668 633332 636000    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3460.02 3469.98 3540    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 20                      | QPSK       | 1       | 1         | 14.54                 | 14.51                    | 14.47                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 630300 633332 636366    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3457.5 3469.98 3542.49  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 15                      | QPSK       | 1       | 1         | 14.55                 | 14.47                    | 14.47                  | 15.5                | 0.0      |  |  |  |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 630004 633332 636666    |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3455.01 3469.98 3544.98 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 10                      | QPSK       | 1       | 1         | 14.51                 | 14.51                    | 14.56                  | 15.5                | 0.0      |  |  |  |  |



| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633332                |                          | 633666                 |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         |                       | 10.36                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 137       |                       | 10.35                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 271       |                       | 10.45                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         |                       | 10.46                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        |                       | 10.35                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       |                       | 10.37                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 270     | 0         |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         |                       | 10.37                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                       | 10.39                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 10.35                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 69        |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       |                       | 10.37                    |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         |                       | 10.39                    |                        | 11.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         |                       | 10.53                    |                        | 11.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 10.51                 | 10.53                    | 10.49                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632666                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 10.51                 | 10.49                    | 10.48                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632214                | 633332                   | 634446                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 10.52                 | 10.50                    | 10.55                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 10.48                 | 10.48                    | 10.50                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3475.02               | 3499.98                  | 3520                   |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 10.51                 | 10.52                    | 10.49                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 10.49                 | 10.47                    | 10.52                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 10.55                 | 10.52                    | 10.51                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 10.47                 | 10.49                    | 10.49                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 10.51                 | 10.53                    | 10.46                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 10.51                 | 10.50                    | 10.55                  | 11.5                | 0.0      |  |

| Part27Q_n78_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 650000                |                          |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 1         |                       | 10.49                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 1       | 137       |                       | 10.48                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 1       | 271       |                       | 10.51                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 135     | 0         |                       | 10.44                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 69        |                       | 10.53                    |                        | 11.5                | 0.0      |  |
| 100                | PI2 BPSK   | 135     | 138       |                       | 10.47                    |                        |                     |          |  |
| 100                | PI2 BPSK   | 270     | 0         |                       | 10.50                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 1       | 1         |                       | 10.57                    |                        |                     |          |  |
| 100                | QPSK       | 1       | 137       |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 1       | 271       |                       | 10.43                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 0         |                       | 10.51                    |                        |                     |          |  |
| 100                | QPSK       | 135     | 69        |                       | 10.53                    |                        | 11.5                | 0.0      |  |
| 100                | QPSK       | 135     | 138       |                       | 10.50                    |                        |                     |          |  |
| 100                | QPSK       | 270     | 0         |                       | 10.54                    |                        | 11.5                | 0.0      |  |
| 100                | 16QAM      | 1       | 1         |                       | 10.49                    |                        | 11.5                | 0.0      |  |
| 100                | 64QAM      | 1       | 1         |                       | 10.47                    |                        | 11.5                | 0.0      |  |
| 100                | 256QAM     | 1       | 1         |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                 | QPSK       | 1       | 1         | 10.52                 | 10.53                    | 10.46                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                 | QPSK       | 1       | 1         | 10.54                 | 10.49                    | 10.47                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                 | QPSK       | 1       | 1         | 10.55                 | 10.52                    | 10.53                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3730.02               | 3750                     | 3760.98                |                     |          |  |
| 60                 | QPSK       | 1       | 1         | 10.47                 | 10.52                    | 10.55                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                 | QPSK       | 1       | 1         | 10.46                 | 10.46                    | 10.55                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3715.02               | 3750                     | 3764.98                |                     |          |  |
| 40                 | QPSK       | 1       | 1         | 10.55                 | 10.53                    | 10.49                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647668                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3710.01               | 3750                     | 3769.99                |                     |          |  |
| 30                 | QPSK       | 1       | 1         | 10.47                 | 10.47                    | 10.46                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647334                | 650000                   | 652866                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3705.01               | 3750                     | 3769.99                |                     |          |  |
| 20                 | QPSK       | 1       | 1         | 10.54                 | 10.54                    | 10.46                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647168                | 650000                   | 653032                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3707.52               | 3750                     | 3762.48                |                     |          |  |
| 15                 | QPSK       | 1       | 1         | 10.54                 | 10.47                    | 10.49                  | 11.5                | 0.0      |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 647000                | 650000                   | 653100                 | Tune-up limit (dBm) | MPR (dB) |  |
|                    |            |         |           | 3705                  | 3750                     | 3765                   |                     |          |  |
| 10                 | QPSK       | 1       | 1         | 10.54                 | 10.51                    | 10.52                  | 11.5                | 0.0      |  |

| Part27Q_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 633000                |                          | 633332                 |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 10.36                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 10.35                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 10.45                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 10.46                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 10.35                    |                        | 11.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 10.37                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         |                       | 10.37                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 10.39                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 10.35                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 10.37                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 10.39                    |                        | 11.5                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         |                       | 10.23                    |                        | 11.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 10.51                    |                        | 11.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 10.42                    |                        | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 10.51                 | 10.53                    | 10.49                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         |                       |                          |                        | 11.5                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 10.52                 | 10.50                    | 10.55                  | 11.5                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 632000                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 10.48                 | 10.48                    | 10.50                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3479.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 10.51                 | 10.52                    | 10.49                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 631332                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 10.49                 | 10.47                    | 10.52                  | 11.5                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3485                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 10.55                 | 10.52                    | 10.51                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 10.47                 | 10.49                    | 10.49                  | 11.5                | 0.0      |  |
| Channel                 |            |         |           | 630332                | 633332                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 10.51                 | 10.53                    | 10.46                  | 11.5                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 630000                | 633332                   | 637332                 | Tune-up limit (dBm) | MPR (dB) |  |
|                         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | QPSK       | 1       | 1         | 10.51                 | 10.55                    | 10.55                  | 11.5                | 0.0      |  |



| Part270_n78 HPUE_Ant 10 |            |         |           |                       |                          |                        |                     |          |     |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |     |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |     |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 10.49                    |                        | 11.5                | 0.0      |     |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 10.48                    |                        |                     |          |     |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 10.51                    |                        |                     |          |     |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 10.44                    |                        | 11.5                | 0.0      |     |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 10.53                    |                        | 11.5                | 0.0      |     |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 10.47                    |                        | 11.5                | 0.0      |     |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 10.50                    |                        |                     |          |     |  |
| 100                     | QPSK       | 1       | 1         |                       | 10.57                    |                        |                     |          |     |  |
| 100                     | QPSK       | 1       | 137       |                       | 10.51                    |                        | 11.5                | 0.0      |     |  |
| 100                     | QPSK       | 1       | 271       |                       | 10.43                    |                        |                     |          |     |  |
| 100                     | QPSK       | 135     | 0         |                       | 10.51                    |                        |                     |          |     |  |
| 100                     | QPSK       | 135     | 69        |                       | 10.53                    |                        | 11.5                | 0.0      |     |  |
| 100                     | QPSK       | 135     | 138       |                       | 10.50                    |                        |                     |          |     |  |
| 100                     | QPSK       | 270     | 0         |                       | 10.54                    |                        |                     |          |     |  |
| 100                     | 16QAM      | 1       | 1         |                       | 10.49                    |                        | 11.5                | 0.0      |     |  |
| 100                     | 64QAM      | 1       | 1         |                       | 10.47                    |                        | 11.5                | 0.0      |     |  |
| 100                     | 256QAM     | 1       | 1         |                       | 10.51                    |                        | 11.5                | 0.0      |     |  |
| Channel                 |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |     |  |
| 90                      | QPSK       | 1       | 1         |                       | 10.52                    | 10.53                  | 10.46               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |     |  |
| 80                      | QPSK       | 1       | 1         |                       | 10.54                    | 10.49                  | 10.47               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |     |  |
| 70                      | QPSK       | 1       | 1         |                       | 10.55                    | 10.52                  | 10.53               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |     |  |
| 60                      | QPSK       | 1       | 1         |                       | 10.47                    | 10.52                  | 10.55               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |     |  |
| 50                      | QPSK       | 1       | 1         |                       | 10.48                    | 10.48                  | 10.55               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |     |  |
| 40                      | QPSK       | 1       | 1         |                       | 10.55                    | 10.53                  | 10.49               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |     |  |
| 30                      | QPSK       | 1       | 1         |                       | 10.47                    | 10.47                  | 10.46               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |     |  |
| 20                      | QPSK       | 1       | 1         |                       | 10.54                    | 10.54                  | 10.46               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 647000                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |     |  |
| 15                      | QPSK       | 1       | 1         |                       | 10.54                    | 10.47                  | 10.49               | 11.5     | 0.0 |  |
| Channel                 |            |         |           | 646334                | 650000                   | 653166                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |     |  |
| 10                      | QPSK       | 1       | 1         |                       | 10.54                    | 10.51                  | 10.52               | 11.5     | 0.0 |  |

| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |     |  |  |
| Frequency (MHz)   |            |         |           | 633332                |                          |                        |                     |          |     |  |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 12.61                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 12.68                    |                        |                     |          |     |  |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 12.69                    |                        |                     |          |     |  |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 12.76                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 12.73                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 12.64                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 12.62                    |                        |                     |          |     |  |  |
| 100               | QPSK       | 1       | 1         |                       | 12.75                    |                        |                     |          |     |  |  |
| 100               | QPSK       | 1       | 137       |                       | 12.75                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | QPSK       | 1       | 271       |                       | 12.74                    |                        |                     |          |     |  |  |
| 100               | QPSK       | 135     | 0         |                       | 12.73                    |                        |                     |          |     |  |  |
| 100               | QPSK       | 135     | 69        |                       | 12.76                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | QPSK       | 135     | 138       |                       | 12.68                    |                        |                     |          |     |  |  |
| 100               | QPSK       | 270     | 0         |                       | 12.74                    |                        |                     |          |     |  |  |
| 100               | 16QAM      | 1       | 1         |                       | 12.73                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | 64QAM      | 1       | 1         |                       | 12.75                    |                        | 13.5                | 0.0      |     |  |  |
| 100               | 256QAM     | 1       | 1         |                       | 12.76                    |                        | 13.5                | 0.0      |     |  |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |     |  |  |
| 90                | QPSK       | 1       | 1         |                       | 12.73                    | 12.71                  | 12.73               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |     |  |  |
| 80                | QPSK       | 1       | 1         |                       | 12.72                    | 12.74                  | 12.70               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |  |  |
| 70                | QPSK       | 1       | 1         |                       | 12.74                    | 12.73                  | 12.76               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3518.99                |                     |          |     |  |  |
| 60                | QPSK       | 1       | 1         |                       | 12.70                    | 12.73                  | 12.74               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |     |  |  |
| 50                | QPSK       | 1       | 1         |                       | 12.73                    | 12.75                  | 12.72               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |  |  |
| 40                | QPSK       | 1       | 1         |                       | 12.69                    | 12.74                  | 12.77               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |     |  |  |
| 30                | QPSK       | 1       | 1         |                       | 12.71                    | 12.75                  | 12.68               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |  |  |
| 20                | QPSK       | 1       | 1         |                       | 12.71                    | 12.77                  | 12.77               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 630300                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |     |  |  |
| 15                | QPSK       | 1       | 1         |                       | 12.69                    | 12.77                  | 12.71               | 13.5     | 0.0 |  |  |
| Channel           |            |         |           | 630334                | 633332                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |     |  |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |  |  |
| 10                | QPSK       | 1       | 1         |                       | 12.74                    | 12.76                  | 12.68               | 13.5     | 0.0 |  |  |

| Part270_n78_Ant 8 |            |         |           |                      |                         |                       |                     |          |         |          |  |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|---------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |         |          |  |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |         |          |  |  |
| Frequency (MHz)   |            |         |           |                      |                         |                       |                     |          |         |          |  |  |
| 100               | PI2 BPSK   | 1       | 1         |                      | 12.62                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | PI2 BPSK   | 1       | 137       |                      | 12.72                   |                       |                     |          |         |          |  |  |
| 100               | PI2 BPSK   | 1       | 271       |                      | 12.70                   |                       |                     |          |         |          |  |  |
| 100               | PI2 BPSK   | 135     | 0         |                      | 12.60                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | PI2 BPSK   | 135     | 69        |                      | 12.72                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | PI2 BPSK   | 135     | 138       |                      | 12.70                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | PI2 BPSK   | 270     | 0         |                      | 12.72                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | QPSK       | 1       | 1         |                      | 12.50                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | QPSK       | 1       | 137       |                      | 12.59                   |                       |                     |          |         |          |  |  |
| 100               | QPSK       | 1       | 271       |                      | 12.65                   |                       |                     |          |         |          |  |  |
| 100               | QPSK       | 135     | 0         |                      | 12.68                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | QPSK       | 135     | 69        |                      | 12.76                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | QPSK       | 135     | 138       |                      | 12.75                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | QPSK       | 270     | 0         |                      | 12.69                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | 16QAM      | 1       | 1         |                      | 12.63                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | 64QAM      | 1       | 1         |                      | 12.68                   |                       | 13.5                | 0.0      |         |          |  |  |
| 100               | 256QAM     | 1       | 1         |                      | 12.67                   |                       | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         |                       |                     |          |         |          |  |  |
| 50                | QPSK       | 1       | 1         | 64996                | 65000                   | 65033                 | Tune-up limit (dBm) | MPR (dB) |         |          |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3760                  |                     |          | 3764.98 |          |  |  |
| Channel           |            |         |           |                      |                         | 649334                |                     |          | 65000   | 650666   |  |  |
| 50                | QPSK       | 1       | 1         | 32421                | 32426                   | 32439                 | Tune-up limit (dBm) | MPR (dB) |         |          |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 37611                 |                     |          | 37616   | 37629.99 |  |  |
| Channel           |            |         |           |                      |                         | 649334                |                     |          | 65000   | 650666   |  |  |
| 40                | QPSK       | 1       | 1         | 12.73                | 12.76                   | 12.78                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 649000                |                     |          | 650000  | 651000   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3735                  |                     |          | 3760    | 3765     |  |  |
| 70                | QPSK       | 1       | 1         | 12.77                | 12.79                   | 12.73                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 649668                |                     |          | 650000  | 651332   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3730.02               |                     |          | 3750    | 3769.98  |  |  |
| 60                | QPSK       | 1       | 1         | 12.71                | 12.74                   | 12.78                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 649334                |                     |          | 650000  | 650666   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3725.01               |                     |          | 3750    | 3774.99  |  |  |
| 50                | QPSK       | 1       | 1         | 12.70                | 12.71                   | 12.71                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 648900                |                     |          | 650000  | 652000   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3720                  |                     |          | 3760    | 3780     |  |  |
| 40                | QPSK       | 1       | 1         | 12.78                | 12.69                   | 12.76                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 647668                |                     |          | 650000  | 652332   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3715.02               |                     |          | 3750    | 3784.98  |  |  |
| 30                | QPSK       | 1       | 1         | 12.74                | 12.75                   | 12.70                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 647234                |                     |          | 650000  | 652666   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3710.01               |                     |          | 3750    | 3789.99  |  |  |
| 20                | QPSK       | 1       | 1         | 12.76                | 12.71                   | 12.78                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 647168                |                     |          | 650000  | 652532   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 3707.52               |                     |          | 3750    | 3792.48  |  |  |
| 15                | QPSK       | 1       | 1         | 12.77                | 12.69                   | 12.71                 | 13.5                | 0.0      |         |          |  |  |
| Channel           |            |         |           |                      |                         | 647000                |                     |          | 650000  | 653000   |  |  |
| Frequency (MHz)   |            |         |           |                      |                         | 37005                 |                     |          | 3750    | 3795     |  |  |
| 10                | QPSK       | 1       | 1         | 12.77                | 12.76                   | 12.73                 | 13.5                | 0.0      |         |          |  |  |

| Part27Q_n78 HPUE_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 633000               |                         | 3499.98               | 13.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 12.61                |                         |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                      | 12.61                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                      | 12.68                   |                       | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                      | 12.69                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 9         |                      | 12.76                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                      | 12.73                   |                       | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                      | 12.64                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                      | 12.62                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                      | 12.79                   |                       | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                      | 12.75                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                      | 12.74                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 9         |                      | 12.73                   |                       | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                      | 12.76                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                      | 12.68                   |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                      | 12.74                   |                       | 13.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                      | 12.73                   |                       |                     |          |  |
| 100                    | 64QAM      | 1       | 1         |                      | 12.75                   |                       |                     | 13.5     |  |
| 100                    | 256QAM     | 1       | 1         |                      | 12.76                   |                       |                     |          |  |
| Channel                |            |         |           | 633000               | 633332                  | 633666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3495                 | 3499.98                 | 3504.99               |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 12.73                | 12.71                   | 12.73                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 632668               | 633332                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3490.02              | 3499.98                 | 3500                  |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 12.72                | 12.74                   | 12.70                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 632034               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3483.01              | 3499.98                 | 3514.98               |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 12.74                | 12.73                   | 12.76                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 632000               | 633332                  | 634666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3480                 | 3499.98                 | 3519.98               |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 12.70                | 12.73                   | 12.74                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 631668               | 633332                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3475.02              | 3499.98                 | 3505                  |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 12.73                | 12.75                   | 12.72                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3470.01              | 3499.98                 | 3509.98               |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 12.69                | 12.74                   | 12.77                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 631000               | 633332                  | 635666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3465.02              | 3499.98                 | 3506                  |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 12.71                | 12.75                   | 12.68                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3460.02              | 3499.98                 | 3510                  |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 12.71                | 12.77                   | 12.77                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 630330               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3457.5               | 3499.98                 | 3502.49               |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 12.69                | 12.77                   | 12.71                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 630000               | 633332                  | 636666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3453.01              | 3499.98                 | 3504.98               |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 12.74                | 12.76                   | 12.69                 | 13.5                | 0.0      |  |

| Part27O_n78 HPUE_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 690000               |                         | 3750                  | 13.5                | 0.0      |  |
| Frequency (MHz)        |            |         |           | 12.62                |                         |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 1         |                      | 12.72                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 1       | 137       |                      | 12.70                   |                       | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 1       | 271       |                      | 12.70                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 9         |                      | 12.60                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 135     | 69        |                      | 12.72                   |                       | 13.5                | 0.0      |  |
| 100                    | Pl2 BPSK   | 135     | 138       |                      | 12.70                   |                       |                     |          |  |
| 100                    | Pl2 BPSK   | 270     | 0         |                      | 12.72                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 1         |                      | 12.80                   |                       | 13.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       |                      | 12.58                   |                       |                     |          |  |
| 100                    | QPSK       | 1       | 271       |                      | 12.71                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 9         |                      | 12.66                   |                       | 13.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        |                      | 12.76                   |                       |                     |          |  |
| 100                    | QPSK       | 135     | 138       |                      | 12.75                   |                       |                     |          |  |
| 100                    | QPSK       | 270     | 0         |                      | 12.69                   |                       | 13.5                | 0.0      |  |
| 100                    | 16QAM      | 1       | 1         |                      | 12.63                   |                       |                     |          |  |
| 100                    | 64QAM      | 1       | 1         |                      | 12.68                   |                       |                     | 13.5     |  |
| 100                    | 256QAM     | 1       | 1         |                      | 12.67                   |                       |                     |          |  |
| Channel                |            |         |           | 649968               | 650000                  | 650032                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |  |
| 90                     | QPSK       | 1       | 1         | 12.77                | 12.72                   | 12.71                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 648334               | 650000                  | 650968                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01              | 3750                    | 3759.98               |                     |          |  |
| 80                     | QPSK       | 1       | 1         | 12.73                | 12.76                   | 12.78                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 646700               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                     | QPSK       | 1       | 1         | 12.77                | 12.69                   | 12.73                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 646668               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |  |
| 60                     | QPSK       | 1       | 1         | 12.71                | 12.74                   | 12.78                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 646334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01              | 3750                    | 3774.98               |                     |          |  |
| 50                     | QPSK       | 1       | 1         | 12.70                | 12.71                   | 12.71                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 646000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                     | QPSK       | 1       | 1         | 12.78                | 12.69                   | 12.76                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 645668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |  |
| 30                     | QPSK       | 1       | 1         | 12.74                | 12.75                   | 12.70                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01              | 3750                    | 3789.98               |                     |          |  |
| 20                     | QPSK       | 1       | 1         | 12.76                | 12.71                   | 12.78                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 647000               | 650000                  | 652932                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |  |
| 15                     | QPSK       | 1       | 1         | 12.77                | 12.69                   | 12.71                 | 13.5                | 0.0      |  |
| Channel                |            |         |           | 646668               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |  |
| 10                     | QPSK       | 1       | 1         | 12.77                | 12.76                   | 12.73                 | 13.5                | 0.0      |  |

| CA, 400_Axi 0                       |             |            |         |           |         |           |               |                       |                 |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| COMBINATION 10MHz+10MHz (SRRB+60R8) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 20560                               | 20568       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 22.59                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.2           | 22.44                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.2           | 22.54                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.2           | 22.59                | 24.00               |
| 20560                               | 20568       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.3           | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.3           | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.3           | 22.49                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.4           | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.4           | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.4           | 22.59                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.5           | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.5           | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.5           | 22.49                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.6           | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.6           | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.6           | 22.49                | 24.00               |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.7           | 22.44                | 24.00               |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.7           | 22.54                | 24.00               |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | CSI.7           | 22.49                | 24.00               |

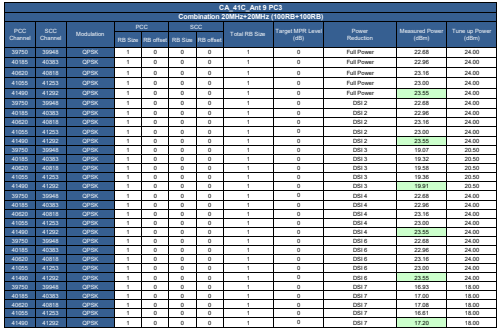
| UL CA Power                         |             |            |         |           |           |               |                       |                 |                |               |
|-------------------------------------|-------------|------------|---------|-----------|-----------|---------------|-----------------------|-----------------|----------------|---------------|
| CA, 400, Axi 1                      |             |            |         |           |           |               |                       |                 |                |               |
| Combination 10MHz+10MHz (SRRB+60R8) |             |            |         |           |           |               |                       |                 |                |               |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power | Time to Power |
|                                     |             |            | RB Size | RB offset | RB offset |               |                       |                 |                |               |
| 20560                               | 20568       | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.45          | 24.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.57          | 24.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.55          | 24.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 18.66          | 20.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 18.70          | 20.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 18.68          | 20.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 22.45          | 24.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 22.57          | 24.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 22.55          | 24.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.45          | 24.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.57          | 24.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.55          | 24.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 22.45          | 24.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 22.57          | 24.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 22.55          | 24.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.6           | 22.45          | 24.00         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.6           | 22.57          | 24.00         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.6           | 22.55          | 24.00         |
| 20608                               | 20608       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.7           | 21.13          | 22.40         |
| 20576                               | 20576       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.7           | 21.18          | 22.40         |
| 20592                               | 20592       | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.7           | 21.15          | 22.40         |

| CA, 400, Axi 0                     |             |            |         |           |           |               |                       |                 |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 10MHz+5MHz (SRRB+20R8) |             |            |         |           |           |               |                       |                 |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB offset |               |                       |                 |                      |                     |
| 133360                             | 133360      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.58                | 24.00               |
| 133362                             | 133362      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.52                | 24.00               |
| 133364                             | 133364      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.14                | 24.00               |
| 133366                             | 133366      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 20.86                | 24.00               |
| 133368                             | 133368      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 20.82                | 24.00               |
| 133370                             | 133370      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.2           | 22.14                | 24.00               |
| 133372                             | 133372      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 17.19                | 18.40               |
| 133374                             | 133374      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 17.20                | 18.40               |
| 133376                             | 133376      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.3           | 17.10                | 18.40               |
| 133378                             | 133378      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.58                | 24.00               |
| 133380                             | 133380      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.52                | 24.00               |
| 133382                             | 133382      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.4           | 22.14                | 24.00               |
| 133384                             | 133384      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 20.16                | 21.00               |
| 133386                             | 133386      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 20.12                | 21.00               |
| 133388                             | 133388      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.5           | 18.83                | 19.80               |
| 133390                             | 133390      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.7           | 18.70                | 19.80               |
| 133392                             | 133392      | QPSK       | 1       | 0         | 0         | 1             | 0                     | CSI.7           | 18.72                | 19.80               |

| CA_54G_Ant 1                         |             |            |         |           |           |               |                       |                 |                      |                     |
|--------------------------------------|-------------|------------|---------|-----------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 100MHz+50MHz (75RB+20RB) |             |            |         |           |           |               |                       |                 |                      |                     |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB offset |               |                       |                 |                      |                     |
| 133001                               | 133100      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.80                | 24.00               |
| 133002                               | 133101      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.78                | 24.00               |
| 133003                               | 133200      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.82                | 24.00               |
| 133004                               | 133201      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.84                | 24.00               |
| 133005                               | 133300      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.94                | 16.10               |
| 133006                               | 133301      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.90                | 16.10               |
| 133007                               | 133400      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.89                | 16.10               |
| 133008                               | 133401      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.81                | 16.00               |
| 133009                               | 133500      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.75                | 16.00               |
| 133010                               | 133501      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.66                | 16.00               |
| 133011                               | 133600      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.80                | 24.00               |
| 133012                               | 133601      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.78                | 24.00               |
| 133013                               | 133700      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.79                | 24.00               |
| 133014                               | 133701      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.82                | 24.00               |
| 133015                               | 133800      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.10                | 22.00               |
| 133016                               | 133801      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.05                | 22.00               |
| 133017                               | 133900      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.06                | 22.00               |
| 133018                               | 133901      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 17.16                | 22.00               |
| 133019                               | 134000      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 16.91                | 16.00               |
| 133020                               | 134001      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB7            | 16.80                | 16.00               |

| CA_56C_Ant 0                            |             |            |         |           |           |               |                       |                 |                      |                     |
|-----------------------------------------|-------------|------------|---------|-----------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 200MHz+200MHz (100RB+100RB) |             |            |         |           |           |               |                       |                 |                      |                     |
| PCC Channel                             | SCC Channel | Modulation | PCC     |           |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                         |             |            | RB Size | RB offset | RB offset |               |                       |                 |                      |                     |
| 133012                                  | 133010      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.76                | 24.00               |
| 133013                                  | 133011      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.85                | 24.00               |
| 133012                                  | 133100      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.77                | 24.00               |
| 133013                                  | 133101      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.78                | 24.00               |
| 133012                                  | 133200      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 22.76                | 24.00               |
| 133013                                  | 133201      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 22.85                | 24.00               |
| 133012                                  | 133300      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 22.77                | 24.00               |
| 133013                                  | 133301      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 22.78                | 24.00               |
| 133012                                  | 133400      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 17.26                | 16.00               |
| 133013                                  | 133401      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 17.26                | 16.00               |
| 133012                                  | 133500      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 17.22                | 16.00               |
| 133013                                  | 133501      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 17.22                | 16.00               |
| 133012                                  | 133600      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.76                | 24.00               |
| 133013                                  | 133601      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.85                | 24.00               |
| 133012                                  | 133700      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.77                | 24.00               |
| 133013                                  | 133701      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.77                | 24.00               |
| 133012                                  | 133800      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.17                | 22.00               |
| 133013                                  | 133801      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.26                | 22.00               |
| 133012                                  | 133900      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.17                | 22.00               |
| 133013                                  | 133901      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.26                | 22.00               |
| 133012                                  | 134000      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 16.72                | 16.00               |
| 133013                                  | 134001      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 16.80                | 16.00               |
| 133012                                  | 134100      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB7            | 16.81                | 16.00               |

| CA_54C_Ant 1                            |             |            |         |           |           |               |                       |                 |                      |                     |
|-----------------------------------------|-------------|------------|---------|-----------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 200MHz+200MHz (100RB+100RB) |             |            |         |           |           |               |                       |                 |                      |                     |
| PCC Channel                             | SCC Channel | Modulation | PCC     |           |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                         |             |            | RB Size | RB offset | RB offset |               |                       |                 |                      |                     |
| 133012                                  | 133010      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.75                | 24.00               |
| 133013                                  | 133011      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.81                | 24.00               |
| 133012                                  | 133100      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.75                | 24.00               |
| 133013                                  | 133101      | QPSK       | 1       | 0         | 0         | 1             | 0                     | Full Power      | 22.81                | 24.00               |
| 133012                                  | 133200      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.96                | 16.10               |
| 133013                                  | 133201      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 17.00                | 16.10               |
| 133012                                  | 133300      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.97                | 16.10               |
| 133013                                  | 133301      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB2            | 16.99                | 16.10               |
| 133012                                  | 133400      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.70                | 16.00               |
| 133013                                  | 133401      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.66                | 16.00               |
| 133012                                  | 133500      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.60                | 16.00               |
| 133013                                  | 133501      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB3            | 16.70                | 16.00               |
| 133012                                  | 133600      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.75                | 24.00               |
| 133013                                  | 133601      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.81                | 24.00               |
| 133012                                  | 133700      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.75                | 24.00               |
| 133013                                  | 133701      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB4            | 22.81                | 24.00               |
| 133012                                  | 133800      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.20                | 22.00               |
| 133013                                  | 133801      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.26                | 22.00               |
| 133012                                  | 133900      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.20                | 22.00               |
| 133013                                  | 133901      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB5            | 21.26                | 22.00               |
| 133012                                  | 134000      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 16.37                | 16.00               |
| 133013                                  | 134001      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB6            | 16.41                | 16.00               |
| 133012                                  | 134100      | QPSK       | 1       | 0         | 0         | 1             | 0                     | OSB7            | 16.36                | 16.00               |



| CA 41C, A11 PCB<br>Combustion (2001A+2001B) (200401+200402) |             |            |         |         |         |         |                 |                  |                   |                      |                     |
|-------------------------------------------------------------|-------------|------------|---------|---------|---------|---------|-----------------|------------------|-------------------|----------------------|---------------------|
| PCB Concentration                                           | SOC Channel | Validation | SOC     |         | SOC     |         | Total PCB (ppb) | Target PCB (ppb) | Power Measurement | Internal Power (ppb) | Time to Power (min) |
|                                                             |             |            | 100 ppm | 100 ppm | 100 ppm | 100 ppm |                 |                  |                   |                      |                     |
| 41010                                                       | 40010       | 00010      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.00             | 24.00                |                     |
| 41015                                                       | 40015       | 00015      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.01             | 24.00                |                     |
| 41020                                                       | 40020       | 00020      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.01             | 24.00                |                     |
| 41025                                                       | 40025       | 00025      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.01             | 24.00                |                     |
| 41030                                                       | 40030       | 00030      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.01             | 24.00                |                     |
| 41035                                                       | 40035       | 00035      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41040                                                       | 40040       | 00040      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41045                                                       | 40045       | 00045      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41050                                                       | 40050       | 00050      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41055                                                       | 40055       | 00055      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41060                                                       | 40060       | 00060      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41065                                                       | 40065       | 00065      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41070                                                       | 40070       | 00070      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41075                                                       | 40075       | 00075      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41080                                                       | 40080       | 00080      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41085                                                       | 40085       | 00085      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41090                                                       | 40090       | 00090      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41095                                                       | 40095       | 00095      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41100                                                       | 40100       | 00100      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41105                                                       | 40105       | 00105      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41110                                                       | 40110       | 00110      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41115                                                       | 40115       | 00115      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41120                                                       | 40120       | 00120      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41125                                                       | 40125       | 00125      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41130                                                       | 40130       | 00130      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41135                                                       | 40135       | 00135      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41140                                                       | 40140       | 00140      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41145                                                       | 40145       | 00145      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41150                                                       | 40150       | 00150      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41155                                                       | 40155       | 00155      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41160                                                       | 40160       | 00160      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41165                                                       | 40165       | 00165      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41170                                                       | 40170       | 00170      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41175                                                       | 40175       | 00175      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41180                                                       | 40180       | 00180      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41185                                                       | 40185       | 00185      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41190                                                       | 40190       | 00190      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41195                                                       | 40195       | 00195      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41200                                                       | 40200       | 00200      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41205                                                       | 40205       | 00205      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41210                                                       | 40210       | 00210      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41215                                                       | 40215       | 00215      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41220                                                       | 40220       | 00220      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41225                                                       | 40225       | 00225      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41230                                                       | 40230       | 00230      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41235                                                       | 40235       | 00235      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41240                                                       | 40240       | 00240      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41245                                                       | 40245       | 00245      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41250                                                       | 40250       | 00250      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41255                                                       | 40255       | 00255      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41260                                                       | 40260       | 00260      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41265                                                       | 40265       | 00265      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41270                                                       | 40270       | 00270      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41275                                                       | 40275       | 00275      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41280                                                       | 40280       | 00280      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41285                                                       | 40285       | 00285      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41290                                                       | 40290       | 00290      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41295                                                       | 40295       | 00295      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41300                                                       | 40300       | 00300      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41305                                                       | 40305       | 00305      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41310                                                       | 40310       | 00310      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41315                                                       | 40315       | 00315      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41320                                                       | 40320       | 00320      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41325                                                       | 40325       | 00325      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41330                                                       | 40330       | 00330      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41335                                                       | 40335       | 00335      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41340                                                       | 40340       | 00340      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41345                                                       | 40345       | 00345      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41350                                                       | 40350       | 00350      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41355                                                       | 40355       | 00355      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41360                                                       | 40360       | 00360      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41365                                                       | 40365       | 00365      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41370                                                       | 40370       | 00370      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41375                                                       | 40375       | 00375      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41380                                                       | 40380       | 00380      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41385                                                       | 40385       | 00385      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41390                                                       | 40390       | 00390      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41395                                                       | 40395       | 00395      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41400                                                       | 40400       | 00400      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41405                                                       | 40405       | 00405      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41410                                                       | 40410       | 00410      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41415                                                       | 40415       | 00415      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41420                                                       | 40420       | 00420      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41425                                                       | 40425       | 00425      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41430                                                       | 40430       | 00430      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41435                                                       | 40435       | 00435      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41440                                                       | 40440       | 00440      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41445                                                       | 40445       | 00445      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41450                                                       | 40450       | 00450      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41455                                                       | 40455       | 00455      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41460                                                       | 40460       | 00460      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41465                                                       | 40465       | 00465      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41470                                                       | 40470       | 00470      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41475                                                       | 40475       | 00475      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41480                                                       | 40480       | 00480      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41485                                                       | 40485       | 00485      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41490                                                       | 40490       | 00490      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41495                                                       | 40495       | 00495      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41500                                                       | 40500       | 00500      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41505                                                       | 40505       | 00505      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41510                                                       | 40510       | 00510      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41515                                                       | 40515       | 00515      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41520                                                       | 40520       | 00520      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41525                                                       | 40525       | 00525      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41530                                                       | 40530       | 00530      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41535                                                       | 40535       | 00535      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41540                                                       | 40540       | 00540      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41545                                                       | 40545       | 00545      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41550                                                       | 40550       | 00550      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41555                                                       | 40555       | 00555      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41560                                                       | 40560       | 00560      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41565                                                       | 40565       | 00565      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41570                                                       | 40570       | 00570      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41575                                                       | 40575       | 00575      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41580                                                       | 40580       | 00580      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41585                                                       | 40585       | 00585      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41590                                                       | 40590       | 00590      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41595                                                       | 40595       | 00595      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41600                                                       | 40600       | 00600      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41605                                                       | 40605       | 00605      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41610                                                       | 40610       | 00610      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41615                                                       | 40615       | 00615      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41620                                                       | 40620       | 00620      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41625                                                       | 40625       | 00625      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41630                                                       | 40630       | 00630      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41635                                                       | 40635       | 00635      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41640                                                       | 40640       | 00640      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41645                                                       | 40645       | 00645      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41650                                                       | 40650       | 00650      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41655                                                       | 40655       | 00655      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41660                                                       | 40660       | 00660      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41665                                                       | 40665       | 00665      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41670                                                       | 40670       | 00670      | 1       | 0       | 0       | 0       | 0               | Full Power       | 23.02             | 24.00                |                     |
| 41675                                                       | 40675       | 00675      | 1       | 0       | 0       | 0       | 0               | Full Power       |                   |                      |                     |

[illegible]







| CA_48C For FCC_Ant 7                    |             |            |         |           |         |           |               |                       |                 |                      |                     |
|-----------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 200MHz+200MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| FCC Channel                             | SCC Channel | Modulation | FCC     |           | SCC     |           | Total RB Size | Target MTR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                         |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 16540                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.28                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.24                | 24.00               |
| 16110                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.32                | 24.00               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.36                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.28                | 24.00               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.34                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.32                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.36                | 24.00               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.94                | 17.70               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 17.06                | 17.70               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.96                | 17.70               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 17.28                | 17.70               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.28                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.34                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.32                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.36                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 23.28                | 24.00               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 23.34                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 23.32                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 23.36                | 24.00               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.94                | 16.90               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.96                | 16.90               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.92                | 16.90               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.96                | 16.90               |

| CA_48C For FCC_Ant 10                   |             |            |         |           |         |           |               |                       |                 |                      |                     |
|-----------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 200MHz+200MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| FCC Channel                             | SCC Channel | Modulation | FCC     |           | SCC     |           | Total RB Size | Target MTR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                         |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 16540                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.29                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.21                | 24.00               |
| 16110                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.14                | 24.00               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.24                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.25                | 24.00               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.17                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.19                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 23.22                | 24.00               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.94                | 16.90               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.90                | 16.90               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.88                | 16.90               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.98                | 16.90               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.23                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.14                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.16                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.11                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.92                | 16.90               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.97                | 16.90               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.95                | 16.90               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.99                | 16.90               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 17.00                | 17.70               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.97                | 17.70               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 7           | 16.93                | 17.70               |

| CA_48C For FCC_Ant 8                    |             |            |         |           |         |           |               |                       |                 |                      |                     |
|-----------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 200MHz+200MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| FCC Channel                             | SCC Channel | Modulation | FCC     |           | SCC     |           | Total RB Size | Target MTR Level (dB) | Power Reduction | Measured Power (dBm) | Time to Power (dBm) |
|                                         |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 16540                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.28                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.20                | 24.00               |
| 16110                                   | 16540       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.16                | 24.00               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 23.26                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 16.94                | 16.90               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 16.99                | 16.90               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 16.96                | 16.90               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 2           | 16.93                | 16.90               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 16.91                | 17.70               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 17.74                | 17.70               |
| 16110                                   | 16442       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 17.74                | 17.70               |
| 16680                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 3           | 17.74                | 17.70               |
| 16540                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.25                | 24.00               |
| 16550                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.20                | 24.00               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.21                | 24.00               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 4           | 23.20                | 24.00               |
| 16380                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.92                | 16.90               |
| 16530                                   | 16550       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.95                | 16.90               |
| 16110                                   | 16440       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.93                | 16.90               |
| 16660                                   | 16642       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | OBS 6           | 16.97                | 16.90               |



DL CA Power

Full Power

ZCC

| Configure  | CA Configuration (BCS) | PCC      |          |               |            |      |       |              | SCC      |     |               |            | Power                  |                       |
|------------|------------------------|----------|----------|---------------|------------|------|-------|--------------|----------|-----|---------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq (MHz) | UL Channel | Mod. | UL RB | UL RB Offset | LTE Band | BW  | DL Freq (MHz) | DL Channel | With CA Tx Power (dBm) | W/O CA Tx Power (dBm) |
| Inter-Band | CA_25A-41A             | Band 25  | 20M      | 1880          | 26340      | QPSK | 1     | 49           | Band 41  | 20M | 2593          | 40620      | 22.31                  | 22.67                 |
|            | CA_26A-41A             | Band 26  | 19M      | 1811.5        | 18965      | QPSK | 1     | 37           | Band 41  | 20M | 2593          | 40620      | 22.26                  | 22.66                 |
|            | CA_2A-17A              | Band 2   | 10M      | 1880          | 18900      | QPSK | 1     | 49           | Band 17  | 10M | 740           | 5790       | 22.41                  | 22.66                 |
|            | CA_41A-48A             | Band 41  | 20M      | 2593          | 40620      | QPSK | 1     | 49           | Band 48  | 20M | 3690          | 56640      | 23.21                  | 23.67                 |
|            | CA_4A-17A              | Band 4   | 10M      | 1732.5        | 20175      | QPSK | 1     | 49           | Band 17  | 10M | 740           | 5790       | 22.77                  | 22.88                 |
|            | CA_4A-48A              | Band 4   | 10M      | 1732.5        | 20175      | QPSK | 1     | 49           | Band 48  | 20M | 3690          | 56640      | 22.86                  | 22.88                 |
| Intra-Band | CA_5A-41A              | Band 5   | 10M      | 836.5         | 20525      | QPSK | 1     | 25           | Band 41  | 20M | 2593          | 40620      | 22.48                  | 22.63                 |
|            | CA_41A-41A             | Band 41  | 20M      | 2593          | 40620      | QPSK | 1     | 49           | Band 41  | 9M  | 2687.5        | 41985      | 23.43                  | 23.67                 |
|            | CA_7B                  | Band 7   | 15M      | 2635          | 21100      | QPSK | 1     | 49           | Band 7   | 9M  | 2664.30       | 3193       | 22.86                  | 23.24                 |
|            | CA_48B                 | Band 48  | 10M      | 3697.5        | 56815      | QPSK | 1     | 49           | Band 48  | 9M  | 3617.40       | 56914      | 22.85                  | 23.34                 |

SCC

| Configure  | CA Configuration (BCS) | PCC           |          |               |            |       |       | SCC1         |          |          |               | SCC2       |          |          |               | With CA    |                | W/O CA         |       |
|------------|------------------------|---------------|----------|---------------|------------|-------|-------|--------------|----------|----------|---------------|------------|----------|----------|---------------|------------|----------------|----------------|-------|
|            |                        | LTE Band      | BW (MHz) | UL Freq (MHz) | UL Channel | Mod.  | UL RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq (MHz) | DL Channel | Tx Power (dBm) | Tx Power (dBm) |       |
| Inter-Band | CA_13A-48A-48A         | Band 13       | 10M      | 782           | 23220      | QPSK  | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3690          | 56640      | 22.78          | 22.89          |       |
|            | CA_13A-48A-66A         | Band 13       | 10M      | 782           | 23220      | QPSK  | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 66  | 20M      | 2155          | 66886      | 22.59          | 22.89          |       |
|            | CA_14A-30A-66A         | Band 14       | 10M      | 793           | 23330      | QPSK  | 1     | 25           | Band 30  | 10M      | 2355          | 9620       | Band 66  | 20M      | 2155          | 66886      | 22.59          | 22.76          |       |
|            | CA_25A-25A-26A         | Band 25       | 20M      | 1880          | 26340      | QPSK  | 1     | 49           | Band 25  | 9M       | 1992.5        | 8665       | Band 26  | 15M      | 876.5         | 8665       | 22.47          | 22.67          |       |
|            | CA_25A-41C             | Band 25       | 20M      | 1880          | 26340      | QPSK  | 1     | 49           | Band 41  | 20M      | 2593          | 40620      | Band 41  | 20M      | 2612.8        | 40818      | 22.48          | 22.67          |       |
|            | CA_26A-41C             | Band 26       | 15M      | 831.5         | 26865      | QPSK  | 1     | 37           | Band 41  | 20M      | 2593          | 40620      | Band 41  | 20M      | 2612.8        | 40818      | 22.57          | 22.66          |       |
|            | CA_2A-12A-30A          | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 12  | 10M      | 737.5         | 5095       | Band 30  | 10M      | 2355          | 9620       | 22.56          | 22.65          |       |
|            | CA_2A-13A-48A          | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 13  | 10M      | 751           | 5230       | Band 48  | 20M      | 3690          | 56640      | 22.48          | 22.65          |       |
|            | CA_2A-14A-66A          | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 14  | 10M      | 763           | 5330       | Band 66  | 20M      | 2155          | 66886      | 22.61          | 22.65          |       |
|            | CA_2A-30A-66A          | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 30  | 10M      | 2355          | 9620       | Band 66  | 20M      | 2155          | 66886      | 22.39          | 22.65          |       |
|            | CA_2A-48A-48A          | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3690          | 56640      | 22.28          | 22.65          |       |
|            | CA_2A-4A-13A           | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 4   | 20M      | 2132.5        | 2175       | Band 13  | 10M      | 751           | 5230       | 22.63          | 22.65          |       |
|            | CA_2A-4A-30A           | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 4   | 20M      | 2132.5        | 2175       | Band 30  | 10M      | 2355          | 9620       | 22.47          | 22.65          |       |
|            | CA_2A-5A-30A           | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 5   | 10M      | 881.5         | 2525       | Band 30  | 10M      | 2355          | 9620       | 22.42          | 22.65          |       |
|            | CA_2A-5A-48A           | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 5   | 10M      | 881.5         | 2525       | Band 48  | 20M      | 3690          | 56640      | 22.60          | 22.65          |       |
|            | CA_2C-12A              | Band 2        | 20M      | 1880          | 18900      | QPSK  | 1     | 49           | Band 12  | 10M      | 1979.8        | 1098       | Band 12  | 10M      | 737.5         | 5095       | 22.51          | 22.65          |       |
|            | CA_48A-48A-71A         | Band 48       | 20M      | 3690          | 56340      | QPSK  | 1     | 49           | Band 48  | 20M      | 3690          | 56640      | Band 71  | 20M      | 634.5         | 66786      | 22.28          | 22.34          |       |
|            | CA_48C-71A             | Band 48       | 20M      | 3690          | 56340      | QPSK  | 1     | 49           | Band 48  | 20M      | 3679.8        | 56538      | Band 71  | 20M      | 634.5         | 66786      | 23.01          | 23.24          |       |
|            | CA_4A-12A-30A          | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 12  | 9M       | 737.5         | 5095       | Band 30  | 10M      | 2355          | 9620       | 22.90          | 22.88          |       |
|            | CA_4A-48C              | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3679.8        | 56538      | 22.77          | 22.88          |       |
|            | CA_4A-4A-13A           | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 4   | 9M       | 2132.5        | 2375       | Band 13  | 10M      | 751           | 5230       | 22.64          | 22.88          |       |
|            | CA_4A-4A-71A           | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 4   | 9M       | 2132.5        | 2375       | Band 71  | 20M      | 634.5         | 66786      | 22.71          | 22.88          |       |
|            | CA_4A-4A-30A           | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 4   | 9M       | 2132.5        | 2375       | Band 7   | 20M      | 2655          | 3100       | 22.75          | 22.88          |       |
|            | CA_4A-5A-30A           | Band 4        | 20M      | 1732.5        | 20175      | QPSK  | 1     | 49           | Band 5   | 10M      | 881.5         | 2525       | Band 30  | 10M      | 2355          | 9620       | 22.58          | 22.88          |       |
| Intra-Band | Non-Configurable       | CA_4A-7A-12A  | Band 4   | 20M           | 1732.5     | 20175 | QPSK  | 1            | 49       | Band 7   | 10M           | 2655       | 3100     | Band 12  | 10M           | 737.5      | 5095           | 22.50          | 22.98 |
|            |                        | CA_5B-30A     | Band 5   | 10M           | 836.5      | 20525 | QPSK  | 1            | 25       | Band 5   | 10M           | 891.4      | 2624     | Band 30  | 10M           | 2355       | 9620           | 22.40          | 22.63 |
|            |                        | CA_7A-12A-66A | Band 7   | 20M           | 2535       | 21100 | QPSK  | 1            | 49       | Band 12  | 10M           | 737.5      | 5095     | Band 66  | 20M           | 2155       | 66886          | 23.18          | 23.24 |
|            |                        | CA_41A-41C    | Band 41  | 20M           | 2593       | 40620 | QPSK  | 1            | 49       | Band 41  | 9M            | 2687.5     | 41985    | Band 41  | 20M           | 2676.8     | 41448          | 23.50          | 23.67 |
|            |                        | CA_66A-66C    | Band 66  | 20M           | 1745       | 15232 | QPSK  | 1            | 49       | Band 66  | 20M           | 2155       | 66886    | Band 66  | 20M           | 2174.8     | 67084          | 22.76          | 22.89 |
|            |                        |               |          |               |            |       |       |              |          |          |               |            |          |          |               |            |                |                |       |

4CC

| Configure         | CA Configuration (BCS) | LTE Band | BW (MHz) | PCC           |            |      |       | SCC1         |          |          |               | SCC2       |          |          |               | SCC3       |          |          |               | Power      |                        |                       |
|-------------------|------------------------|----------|----------|---------------|------------|------|-------|--------------|----------|----------|---------------|------------|----------|----------|---------------|------------|----------|----------|---------------|------------|------------------------|-----------------------|
|                   |                        |          |          | UL Freq (MHz) | UL Channel | Mod. | UL RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq (MHz) | DL Channel | With CA Tx Power (dBm) | W/O CA Tx Power (dBm) |
| Inter-Band        | CA_12A-30A-66A-66A     | Band 12  | 10M      | 707.5         | 23095      | QPSK | 1     | 25           | Band 30  | 10M      | 2355          | 9620       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 10M      | 2197.5        | 67311      | 22.87                  | 23.04                 |
|                   | CA_12B-66A-66A         | Band 12  | 5M       | 707.5         | 23095      | QPSK | 1     | 25           | Band 12  | 10M      | 744.7         | 5167       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 10M      | 2197.5        | 67311      | 22.91                  | 23.04                 |
|                   | CA_13A-48A-48C         | Band 13  | 10M      | 782           | 23220      | QPSK | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3679.8        | 56538      | 22.75                  | 22.89                 |
|                   | CA_13A-48A-66B         | Band 13  | 10M      | 782           | 23220      | QPSK | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 66  | 15M      | 2155          | 66886      | Band 66  | 10M      | 2164.3        | 66979      | 22.68                  | 22.89                 |
|                   | CA_13A-48A-66C         | Band 13  | 10M      | 782           | 23220      | QPSK | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 66  | 20M      | 2155          | 66886      | Band 66  | 20M      | 2174.8        | 67084      | 22.86                  | 22.89                 |
|                   | CA_13A-48C-66A         | Band 13  | 10M      | 782           | 23220      | QPSK | 1     | 25           | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3679.8        | 56538      | Band 66  | 20M      | 2155          | 66886      | 22.58                  | 22.89                 |
|                   | CA_13A-66A-66C         | Band 13  | 10M      | 782           | 23220      | QPSK | 1     | 25           | Band 66  | 20M      | 2155          | 66886      | Band 48  | 20M      | 3690          | 56640      | Band 48  | 20M      | 3679.8        | 56538      | 22.57                  | 22.89                 |
|                   | CA_14A-66A-66A-66A     | Band 14  | 10M      | 793           | 23330      | QPSK | 1     | 25           | Band 66  | 20M      | 2140          | 66786      | Band 66  | 20M      | 2120          | 66836      | Band 66  | 20M      | 2190          | 67236      | 22.71                  | 22.76                 |
|                   | CA_25A-41D             | Band 25  | 20M      | 1880          | 26340      | QPSK | 1     | 49           | Band 41  | 20M      | 2462.2        | 41094      | Band 41  | 20M      | 2660.2        | 41292      | Band 41  | 20M      | 2680          | 41400      | 22.62                  | 22.87                 |
|                   | CA_2A-12A-66A-66A      | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 12  | 10M      | 737.5         | 5095       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 10M      | 2197.5        | 67311      | 22.63                  | 22.65                 |
|                   | CA_2A-12A-66C          | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 12  | 10M      | 737.5         | 5095       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 20M      | 2174.8        | 67084      | 22.50                  | 22.65                 |
|                   | CA_2A-12B-66A          | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 12  | 9M       | 737.5         | 5095       | Band 12  | 10M      | 744.7         | 5167       | Band 66  | 20M      | 2155          | 66886      | 22.48                  | 22.65                 |
|                   | CA_2A-13A-48C          | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 13  | 10M      | 751           | 5230       | Band 48  | 20M      | 3690          | 56340      | Band 48  | 20M      | 3679.8        | 56538      | 22.45                  | 22.65                 |
|                   | CA_2A-13A-66A-66A      | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 13  | 10M      | 751           | 5230       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 10M      | 2197.5        | 67311      | 22.43                  | 22.65                 |
|                   | CA_2A-13A-66C          | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 13  | 10M      | 751           | 5230       | Band 66  | 20M      | 2155          | 66886      | Band 66  | 20M      | 2174.8        | 67084      | 22.40                  | 22.65                 |
|                   | CA_2A-2A-12A-66A       | Band 2   | 20M      | 1880          | 18900      | QPSK | 1     | 49           | Band 2   | 9M       | 1987.5        | 1175       | Band 12  | 10M      | 737.5         | 5095       | Band 66  | 20M      | 2155          | 66886      | 22.38                  | 22.65                 |
| CA_2A-2A-4A-5A    | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 4     | 20M      | 2132.5   | 2175          | Band 5     | 10M      | 881.5    | 2625          | 22.58      | 22.65                  |                       |
| CA_2A-2A-4A-71A   | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 4     | 20M      | 2132.5   | 2175          | Band 71    | 20M      | 634.5    | 66786         | 22.61      | 22.65                  |                       |
| CA_2A-2A-66A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 5     | 10M      | 881.5    | 2625          | Band 66    | 20M      | 2155     | 66886         | 22.54      | 22.65                  |                       |
| CA_2A-2A-66C      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 5     | 10M      | 881.5    | 2625          | Band 5     | 10M      | 891.4    | 2624          | 22.57      | 22.65                  |                       |
| CA_2A-5A-66A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.39      | 22.65                  |                       |
| CA_2A-5A-66B-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 66    | 20M      | 2155     | 66886         | Band 71    | 20M      | 634.5    | 66786         | 22.41      | 22.65                  |                       |
| CA_2A-5A-66C      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2164.3   | 66979         | 22.48      | 22.65                  |                       |
| CA_2A-5A-66C      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 20M      | 2174.8   | 67084         | 22.58      | 22.65                  |                       |
| CA_2A-7A-12A-12A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 7     | 20M      | 2655     | 3100          | Band 12    | 10M      | 737.5    | 5095          | 22.55      | 22.65                  |                       |
| CA_2A-7A-66A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 2       | 9M       | 1987.5   | 1175          | Band 7     | 20M      | 2655     | 3100          | Band 66    | 20M      | 2155     | 66886         | 22.53      | 22.65                  |                       |
| CA_2A-48A-48C     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56340         | Band 48    | 20M      | 3690     | 56340         | Band 48    | 20M      | 3679.8   | 56538         | 22.51      | 22.65                  |                       |
| CA_2A-48A-66A-66A | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56340         | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.47      | 22.65                  |                       |
| CA_2A-48C-66A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56340         | Band 48    | 20M      | 3679.8   | 56538         | Band 66    | 20M      | 2155     | 66886         | 22.49      | 22.65                  |                       |
| CA_2A-48A-66A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56340         | Band 48    | 20M      | 3690     | 56340         | Band 48    | 20M      | 3679.8   | 56538         | 22.59      | 22.65                  |                       |
| CA_2A-44A-44A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 4       | 20M      | 2132.5   | 2175          | Band 4     | 20M      | 2132.5   | 2175          | Band 5     | 10M      | 881.5    | 2625          | 22.41      | 22.65                  |                       |
| CA_2A-44A-66A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 4       | 20M      | 2132.5   | 2175          | Band 5     | 10M      | 881.5    | 2625          | Band 5     | 10M      | 891.4    | 2624          | 22.61      | 22.65                  |                       |
| CA_2A-44A-7A-7A   | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 4       | 20M      | 2132.5   | 2175          | Band 7     | 20M      | 2655     | 3100          | Band 7     | 20M      | 2687.5   | 3425          | 22.63      | 22.65                  |                       |
| CA_2A-44-7C       | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 4       | 20M      | 2132.5   | 2175          | Band 7     | 20M      | 2655     | 3100          | Band 7     | 20M      | 2674.8   | 3298          | 22.52      | 22.65                  |                       |
| CA_2A-5A-48C      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 48    | 20M      | 3690     | 56340         | Band 48    | 20M      | 3679.8   | 56538         | 22.48      | 22.65                  |                       |
| CA_2A-5A-5A-66A   | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 5     | 10M      | 889      | 2600          | Band 66    | 20M      | 2155     | 66886         | 22.51      | 22.65                  |                       |
| CA_2A-5A-66A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.39      | 22.65                  |                       |
| CA_2A-5A-66B-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 66    | 20M      | 2155     | 66886         | Band 71    | 20M      | 634.5    | 66786         | 22.41      | 22.65                  |                       |
| CA_2A-5A-66C      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 20M      | 2174.8   | 67084         | 22.58      | 22.65                  |                       |
| CA_2A-5A-7A-7A    | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 7     | 20M      | 2655     | 3100          | Band 7     | 20M      | 2687.5   | 3425          | 22.53      | 22.65                  |                       |
| CA_2A-5B-66A      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 5       | 10M      | 881.5    | 2625          | Band 5     | 10M      | 891.4    | 2624          | Band 66    | 20M      | 2155     | 66886         | 22.45      | 22.65                  |                       |
| CA_2A-6A-66A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 66      | 20M      | 2140     | 66786         | Band 66    | 20M      | 2120     | 66836         | Band 66    | 20M      | 2190     | 67236         | 22.58      | 22.65                  |                       |
| CA_2A-6A-66A-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 66      | 20M      | 2155     | 66886         | Band 66    | 20M      | 2197.5   | 67311         | Band 71    | 20M      | 634.5    | 66786         | 22.52      | 22.65                  |                       |
| CA_2A-66A-66B     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 66      | 20M      | 2155     | 66886         | Band 66    | 15M      | 2155     | 66886         | Band 66    | 10M      | 2164.3   | 66979         | 22.50      | 22.65                  |                       |
| CA_2A-66C-71A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 66      | 20M      | 2155     | 66886         | Band 66    | 20M      | 2174.8   | 67084         | Band 66    | 10M      | 2197.5   | 67311         | 22.62      | 22.65                  |                       |
| CA_2A-7A-13A-66A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.47      | 22.65                  |                       |
| CA_2A-7A-13A-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 71    | 20M      | 634.5    | 66786         | Band 66    | 10M      | 2197.5   | 67311         | 22.40      | 22.65                  |                       |
| CA_2A-7A-13A-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 7     | 20M      | 2687.5   | 3425          | Band 13    | 10M      | 751      | 5230          | 22.40      | 22.65                  |                       |
| CA_2A-7A-13A-71A  | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 7     | 20M      | 2687.5   | 3425          | Band 66    | 20M      | 2155     | 66886         | 22.37      | 22.65                  |                       |
| CA_2A-7C-13A      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 7     | 20M      | 2674.8   | 3298          | Band 13    | 10M      | 751      | 5230          | 22.41      | 22.65                  |                       |
| CA_2A-7C-66A      | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 7     | 20M      | 2674.8   | 3298          | Band 66    | 20M      | 2155     | 66886         | 22.48      | 22.65                  |                       |
| CA_2C-66A-66A     | Band 2                 | 20M      | 1880     | 18900         | QPSK       | 1    | 49    | Band 7       | 20M      | 2655     | 3100          | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.43      | 22.65                  |                       |
| CA_4A-48A-66A-66A | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56640         | Band 66    | 20M      | 2155     | 66886         | Band 66    | 10M      | 2197.5   | 67311         | 22.98      | 23.24                  |                       |
| CA_4A-48A-66B     | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56640         | Band 66    | 15M      | 2155     | 66886         | Band 66    | 10M      | 2164.3   | 66979         | 22.95      | 23.24                  |                       |
| CA_4A-48A-66C     | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56640         | Band 66    | 20M      | 2155     | 66886         | Band 66    | 20M      | 2174.8   | 67084         | 22.89      | 23.24                  |                       |
| CA_4A-48C-66A     | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3690     | 56640         | Band 66    | 20M      | 2155     | 66886         | Band 66    | 20M      | 2197.5   | 67311         | 22.92      | 23.24                  |                       |
| CA_4A-66A-66A     | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3679.8   | 56538         | Band 66    | 15M      | 2155     | 66886         | Band 66    | 10M      | 2164.3   | 66979         | 22.91      | 23.24                  |                       |
| CA_4A-66C         | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3679.8   | 56538         | Band 66    | 15M      | 2155     | 66886         | Band 66    | 10M      | 2164.3   | 66979         | 22.78      | 23.24                  |                       |
| CA_48C-66C        | Band 48                | 20M      | 3550     | 55340         | QPSK       | 1    | 49    | Band 48      | 20M      | 3679.8   | 56538         | Band 66    | 20M      |          |               |            |          |          |               |            |                        |                       |



| Level 10<br>Full Power | Mode | Channel | Frequency<br>(MHz) | Ant 3               |         |       |         |       |         |
|------------------------|------|---------|--------------------|---------------------|---------|-------|---------|-------|---------|
|                        |      |         |                    | Average power (dBm) |         |       |         |       |         |
|                        |      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up | 3Mbps | Tune-up |
|                        |      |         |                    | 17.00               | 18.50   | 14.50 | 16.00   | 14.50 | 16.00   |
| BR / EDR               |      | CH 00   | 2402               | 17.00               | 18.50   | 14.50 | 16.00   | 14.50 | 16.00   |
|                        |      | CH 39   | 2441               | 17.00               | 18.50   | 14.50 | 16.00   | 14.50 | 16.00   |
|                        |      | CH 78   | 2480               | 16.80               | 18.50   | 14.30 | 16.00   | 14.30 | 16.00   |

| Level 9<br>Standalone&<br>Simultaneous | Mode | Channel | Frequency<br>(MHz) | Ant 3               |         |       |         |       |         |
|----------------------------------------|------|---------|--------------------|---------------------|---------|-------|---------|-------|---------|
|                                        |      |         |                    | Average power (dBm) |         |       |         |       |         |
|                                        |      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up | 3Mbps | Tune-up |
|                                        |      |         |                    | 11.30               | 12.50   | 8.50  | 10.00   | 8.50  | 10.00   |
| BR / EDR                               |      | CH 00   | 2402               | 11.30               | 12.50   | 8.50  | 10.00   | 8.50  | 10.00   |
|                                        |      | CH 39   | 2441               | 11.30               | 12.50   | 9.10  | 10.00   | 9.10  | 10.00   |
|                                        |      | CH 78   | 2480               | 9.50                | 11.00   | 6.60  | 8.50    | 6.60  | 8.50    |

| Mode | Channel | Frequency<br>(MHz) | Ant 3               |      |               |  |
|------|---------|--------------------|---------------------|------|---------------|--|
|      |         |                    | Average power (dBm) |      |               |  |
|      |         |                    | GFSK                |      | Tune-up Limit |  |
|      |         |                    | 7.50                | 8.00 | 9.00          |  |
| LE   | CH 00   | 2402               | 7.50                | 8.00 | 9.00          |  |
|      | CH 19   | 2440               | 7.90                | 8.00 | 8.00          |  |
|      | CH 39   | 2480               | 6.10                | 8.00 | 8.00          |  |

| Mode | Channel | Frequency<br>(MHz) | Ant 3               |         |       |         |
|------|---------|--------------------|---------------------|---------|-------|---------|
|      |         |                    | Average power (dBm) |         |       |         |
|      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up |
|      |         |                    | 7.50                | 8.00    | 7.40  | 8.00    |
| LE   | CH 00   | 2402               | 7.50                | 8.00    | 7.40  | 8.00    |
|      | CH 19   | 2440               | 7.90                | 8.00    | 7.80  | 8.00    |
|      | CH 39   | 2480               | 6.10                | 8.00    | 6.00  | 8.00    |

| Level 10<br>Full Power | Mode | Channel | Frequency<br>(MHz) | Ant 5               |         |       |         |       |         |
|------------------------|------|---------|--------------------|---------------------|---------|-------|---------|-------|---------|
|                        |      |         |                    | Average power (dBm) |         |       |         |       |         |
|                        |      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up | 3Mbps | Tune-up |
|                        |      |         |                    | 17.40               | 18.50   | 15.00 | 16.50   | 15.00 | 16.50   |
| BR / EDR               |      | CH 00   | 2402               | 17.40               | 18.50   | 15.00 | 16.50   | 15.00 | 16.50   |
|                        |      | CH 39   | 2441               | 18.10               | 18.50   | 15.70 | 16.50   | 15.70 | 16.50   |
|                        |      | CH 78   | 2480               | 16.80               | 18.50   | 14.70 | 16.50   | 14.70 | 16.50   |

| Level 9<br>Standalone&<br>Simultaneous | Mode | Channel | Frequency<br>(MHz) | Ant 5               |         |       |         |       |         |
|----------------------------------------|------|---------|--------------------|---------------------|---------|-------|---------|-------|---------|
|                                        |      |         |                    | Average power (dBm) |         |       |         |       |         |
|                                        |      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up | 3Mbps | Tune-up |
|                                        |      |         |                    | 13.00               | 14.50   | 10.70 | 12.50   | 10.70 | 12.50   |
| BR / EDR                               |      | CH 00   | 2402               | 13.00               | 14.50   | 10.70 | 12.50   | 10.70 | 12.50   |
|                                        |      | CH 39   | 2441               | 14.00               | 14.50   | 11.60 | 12.50   | 11.60 | 12.50   |
|                                        |      | CH 78   | 2480               | 11.80               | 13.00   | 9.10  | 11.00   | 9.10  | 11.00   |

| Mode | Channel | Frequency<br>(MHz) | Ant 5               |       |               |  |
|------|---------|--------------------|---------------------|-------|---------------|--|
|      |         |                    | Average power (dBm) |       |               |  |
|      |         |                    | GFSK                |       | Tune-up Limit |  |
|      |         |                    | 9.00                | 11.00 |               |  |
| LE   | CH 00   | 2402               | 9.00                | 11.00 |               |  |
|      | CH 19   | 2440               | 10.10               | 11.00 |               |  |
|      | CH 39   | 2480               | 7.00                | 9.00  |               |  |

| Mode | Channel | Frequency<br>(MHz) | Ant 5               |         |       |         |
|------|---------|--------------------|---------------------|---------|-------|---------|
|      |         |                    | Average power (dBm) |         |       |         |
|      |         |                    | 1Mbps               | Tune-up | 2Mbps | Tune-up |
|      |         |                    | 9.00                | 11.00   | 8.90  | 10.50   |
| LE   | CH 00   | 2402               | 9.00                | 11.00   | 8.90  | 10.50   |
|      | CH 19   | 2440               | 10.10               | 11.00   | 10.00 | 10.50   |
|      | CH 39   | 2480               | 7.00                | 9.00    | 6.90  | 8.50    |